

Jane's POCKET GUIDE MODERN MIUITARY HELICOPTERS

TIM RIPLEY



HarperCollinsPublishers

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Introduction

"Death from Above" was the famous insignia on the nose of leutenant Colonel Kligore's UH-1 Havy gunellip in Francis Ford Coppold's Victnam War epic. Aporollypse Row. The ZSminute long section of the movie where the 1/9th 7uir Cuir Takes a Victoria peled village to the sound of Wlagoris's Role of the Vallyries captured perfectly the essence of going to war by helicinate.

Since the Vietnam War the helicopter has been an integral part of every armed force, and rotany-winged aircraft have seen action in every major conflict and many small wars. This rapid acceptance of helicopters into the mainstream of military organisations in attack, recommissance, lisison, transport, medical and mainting rules has led one.

commentator to term them retary-usinged Fighting swhitest. However, when helicopters first saw action during the Korean War, they were used by US amued forcers for exaustry cocusation and WIP transport only, lenders, it was left to the French to first demonstrate the combat potential of the armed helicopter during their colonial conflict in Algeria. The 1950s, and 60s also coincided with resolutionary developments in helicoster design, such as the tandem rotor and turbods aff.

The success of US Army and Murine Corps gunships in Victnam spurred the Soviet, British, French, Italian, Israeli, German and numerous other armed forces to field their own fleets of helicopters for anti-tank and assault work. By the mid-1970s most armies had began programmes to procure societists attack helicopters, leading to the development of the societists attack helicopters, leading to the development of the current generation of Cobras, Apaches, Tigers, A 129s, Mi-24s, Ka-50s and Rooivalls. It must be duly noted that these developments were often made in the face of stiff opposition from air force 'blue suiters', who saw the armed helicopter as a direct rival to their own fleets of fixed-wing close air support aircraft.

No such argument was put forward by the navies of the world, however, as they had been quick to entrace the armed helicopter for the anti-submarine and anti-surface vessel roles as well as more conventional air transport duties. Indeed, the 1982 Falklands War proved the worth of the beliconter in naud warfare respective the British Bear from

Argentine submarine attack, decoying Exocet missiles with electroric jamming devices and sinking enemy shipping with guided missiles. For years later US Army and Rays helicoptes provided vital protection against tranian fast potrol boats in Persan Gulf.

The 1991 Gulf Was saw helicopters employed successfully in a wide ranne of roles by Challing forces whelst in.

aftermath of the conflict, multi-national relief efforts to help Kurdish refugees in Northern Iraq of geoméd on helicopters to fly in supplies to remote mountain camps. In the post-Cole War world, humanitarian aid and proceeding missions have seen osternshiby military

peaceteeping missions have seen ostensibly military helicopters put to extensive use. Media images of United Nations relief operations in Somalia, Halti, Rivanda, Bosnia and elsewhere are dominated by swarms of helicopters, NAIO peace enforcing missions in Bosnia have seen the Anache

powerplants.

attack belienater intimidation local forces into keeping the

From a communist standagint. Soviet forces used beliconter ounships to great effect during their long conflict in Afeltanistan from 1979 cowards The simple but runned Mil Mi-8 and Mi-24 assault helicopters became familiar images on snatched footage shot by western television crews cowering with the Muibadeen querrillas at the hottom of parehed Afahan valleys, In 1994 Russian helicopters were again in action against Islamic querrillas in Chechnya, Combat beliconters from the former Soviet Union are much in demand herause of their low cost and reliability Proof of this has come very recently when, in a remarkable vote of faith in their former apponents' equipment, the South African-based

mercenary organisation Executive Outcomes has become a regular user of Mi-8 and Mi-24s during its operations in

This Jane's quide aims to describe the major combat. belignoters in service today, or in the final stanes of development. We have elassified combat believaters as rotarywinged aircraft designed specifically for military use, or civilian machines adopted for use by military forers. Increasingly armed forces are making use of chartened

civilian helicopters as a means to cut custs, and we have enclosed the types used by contractors in this study. particularly those chartered by the United Nations for We also take note of a number of major changes in the believater industry. For example, the consolidation of heliconter manufacturers into a smaller number of larger companies is reflected in the usage of new company titles. We have however included details of what are termed heritage communies' for reference da a rule use have used the current name of the manufacturer, or last name manufacturer before

The opening up of the Russian defence industry since the demise of the Soviet Union has meant that it is now possible to attribute long-established designs to their real manufacturers, rather than just link products to design bureau (known as DKR). Actual Russian believates and arrange designations are also used to supplement NATO reporting Heliconter production continues around the world in large

numbers in spite of the negeral down turn in clobal defence spending. This trend will continue as combat helicopters continue to be in the forefront of military thinking and actual operations well into the 21st Century New technical developments such as the introduction of tilt rotors and advanced compound belicopters also offer military belicopter users significant improvements in both performance and operational canabilities

Tim Ripley

production crased

Aerospatiale Alouette II (France)

Type: Light helicopter Accommodation: One pilot; four passengers

Development/History

first turbushaft powered helicopter to enter prod

Variants
SE 2130: has prototype Alcuette Ib. asserted by the 268 kill

1360 stepl Tarbornicos Annouse I funtionisalt.
SE 31380 Designation after Suel-St interged with Quest Avistion in 1967, later re-enumed Suel-Avistion.
SE 31392 Absorbe II directogenest powered by a 298 kW (400 stepl habornicos farmo II emple, but more positocos (4.1100). Automiticos farmo III emple, but more positocos (4.1100). Automiticos farmo III emple, but more positocos (4.1100). Automiticos farmo III emple, but more positocos (4.1100). Automiticos farmos III designation proposale fair farmos III emple.

construct Astacus IN with a new certrifugal chatch. SA 318C: Podarcine version of SA 3180. SA 316B Lanux Powered by Automica Astronate IRI. Ascended in India (Cheetal) and Brack [NB 31ER Govke) Status.

French production ended 1975, Indian production continues.

Operators

Argentina, Belgiam, Benin, Bulivia, Cameroon, Chile, Congo, Ecuador, U. Solvador, Dominicon Republic, Germany, Gainea-Bissos, India, Lebance, Namihia, Screeganbia, Toyo, Turcio.

Manufacturers Sut-Is/Sut-Ja/subjen/Revoyatiale (France), Hindustan Amonastins Usd (Jada), Helbian/Dravill, Saab (Sweden), Republic Aviation (USA).



Specifications (for SA 318C)

Powerplant One Turboneco Astazou

Dimensions Length: 39 ft 8 in (12.70 m) Rator diameter: 33 ft 5.6 in (10.20 m) Height: 9 ft [2.75 m] Weights Empty: 1961 lb 02

Performance Nax speed: 127 mph (205 kmh) Barner: 318 mm (720 km)

Armament AS11 and 12 wire

free-flight sockets; reachine gurn

Aerospatiale Alouette III (France)

Type: Light believeter Accommodation: Two pilots fam excepnoses

Development/History II. The first prototype flew in 1950 and saudty became a widespread use Portuguese Bhodesius and Seath African been used extensively in conflicts on the Indian sub-

warfare, arti-surface warfare, arti-armour, combat search work on the Alcuette family helped establish the Indian.

SE STREET About the III apparent by one GAR MW (EXILIDAD)

Turbornico Astonico IIII babashaft devotest to 430 MV SA 3168: Featured strengthened main and fail notor to allow



Accompatible Alcostte III Specifications (for SA 319B)

Dimensions Length: 33 ft 4 in (10.2 m)

Weights

Max TAD: 4530 ft (2000 tol) Performance

Armament AS12 guided missiles: Mk-44 ASW tamedoes:



on IAB-1168 and in India as Chetak. SA 319C: Artesate IIID powered variant built in

SA 3198: Direct development of the SA 3168,

gurs. Gurchip with single port fixing 20 men

IAE-117 States Prototore Domania markin marine accord with anti-Lank missiles free-full pockets and machine man Atlan Aviation XH-1 Alpha: South Africa seranos system Status

Production in France rested in 1983 offer LASS half Same

230 built in Bornania until 1989. Limited amountion.

Operators

Manufacturers

Sad-Asiation/Aerospatiale (France), ICA Brasov (Bornania)

Aerospatiale Super Freion (France)

Tuner Henry lift beliennter Accommodation: Two pilots, up to 22 passenness

Development/History

First flown in the 1962 to meet forms Nov equipments

Variants

SA 3216: Fernet ASW version, later able to five Docet SA 321Ga: Freech navy cares carrying and assault transacet.

SA 321H: Western cold to been with Turne HE control Owers ORR-31D ratio and Expert missiles

SA 321K: Dated transport window to have!

Production continues in China only. Operators

Manufacturer

Aerospatiale SA 321 Super Freion Specifications (for SA321G)

Powernlant Weinhts

Freety: 15 1365 (606) (e)

Armament

ASW torpedoes; draft charges; machine gury,

Eurocopter Gazelle (France)

Type: Light helicopter Accom

Accommodation: One pilot, four passengers

Development/History

a implacement for its Alexette family, by 1982 it has been plain to the melaptic or the Alexette family flicting and patient themselves or the Alexette flicting flic

A year later the Chartle made its fast BigH1, and soon it version with the revolutioning Theodorie, or India-ti-la tai note soo airborne. By the mid-1990s the nineall was in widespread are with the Balabh and french armed forces, Firsh 1952 the French began to field the exe SA 202 version, which sported an improved engine, Billain choose

It was in the 1992 (observe our that a System review merch with 1992 and 1992 (observed the Spatie) where of with 1992 and 1992 observed the Spatie) that protectable on merch decopater, French 2011 and Mostal missile-circumd versions were used extensively during the 1992 GAP Way in their consist, who are the extense left fliest of the Condition System French Would Govern Sought absorption US March Corps feets to their Karwall CUT, Vispostalvia-half versions have been used extensively in a restrict and immerch less driven the Cut our that halva's units.



Westland Gazelle AH.Mk 1 of the British Army Air Corps Specifications (for SA 341)

Powerplant One Turbonies Astazou IIIA tur Buser: 550 day (440 kin)

Dimensions length: 39 ft 3

Height: 10 ft 2 in (3.2 m)
Weights

Empty: 2022 to (317 kg) Max 130: 3530 to (1800 kg) Payload: 1540 lb (200 kg)

Performance Max speed: 193 mph (310 kmh) Rimpe: 345 nm (670 km); 783 nm (360 km with max payload

Armamei

AOTI, AOTZ, HOI, TOW and \$8114B Mayatta (M-1) Sagger) wire-guided anti-tunk mixiles; \$102XM Strels (SA-7 Soal) and Mixral air-toair mixiles; Biol M621 20 mm cannon; doorand post-mounted machine gans; free-flight packets.

Eurocopter Gazelle (France)

in 1991, with Serb-operated Gazelles seeing action against

Stovenion, Creat and Boseia forces.

Betala and French Guzelius have been used in the forme
Yagoslavia to support United Nations and NAVIO

.. . .

SA 340: Two prototypes, first with conventional rotors and T-tailt; second fitted with nigid main rators and fenestron, Autosopu II powerplant of 288 NV (390 Stp).

cabin, semi-articulated reters, 440 KW (590 Shq) Actions III and 3500 B (1800 bg) maximum weight. SA 3418: Bidds Anny Ale Corps; Gazelle All 1, 212 Italii. SA 3400: Birtish Bread Navy Elect Air Anni Gazelle III 2, 40

SA 341D: British Royal Air Force Guzelle III 3, 29 built. SA 341E: British Royal Air Force VIP transport Biazelle HCC one built and three converted from HT 3s.

one built and three converted from HT 3s. SA 3416; Chillian. SA 3416; French Army Aviation version, 168 built. SA 3416; Danners: French Benry Aviation M671 20 non

SA 3419 Cannon: French ferry Availors MAZE ZO min cannon armed version, 62 converted from original Es. SA 3419C Initial French military export version.

SA 341M: French Army Jointon HOT armed version, 40 converted from original Fs. SA 3428-Clerken.

Eurocopius an aux 21 das

.....



SA 3426: By-rated military expert version with 450.6W-9220 shpl Astazea XRAI Poverplant and 4189 to (1900 kg) maximum velipht. SA 1451: Military expert model with immoved ferrorism.

Science 179 bank in fraginations, including SS 3-1072 CAMA.
Attack, and SS 3-3072 REPA score reviews arrest with Soviet
More anti-more and after Could reviews arrest with Soviet
More anti-more and after Could reviews.
SS 3-30131 Reference openet versions with Actupes XMM and
4000 L (2000) light produces we object.
SS 3-30130 Vivineer: final production review for Erectic Array.
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No longer in productio

Operators
Angola, Roseian Serb Republic, Burundi, Cameroon, Orostia,

Cyprus, Ecuador, Egypt, France Grenyl Guesca Republic, Iraq, Incland, Jordan, Kengas, Kovanit, Lebarron, Libya, Morecco, Data Senegamba, Skownis, Syrka, Tanisia, UAP (Patr Dhabit, United Graphier Jamughrays), Yugoslavki (Serbis/Montenegyo).

Manufacturer Sud-Aviation (Acoupatible Eurocepter (France), Westland Heliconters (UK), SOKO (Yugustavia), Australia Heliconter

Eurocopter SA 342M Gazelle for French Army Aviation

(Tim Ripley)

Eurocopter SA 342
Eurocopter SA 342
Gazella fires a HOT
wire guided anti-tank
missile



Eurocopter Dauphin/Panther (France)

Tune: Light beliennter Accommodation: Two pilots 10 troops

Development/History Assessable began development of the Develop (Belatia) or

production over since, with worldwide sales and a number of Althon engines entered service with the US Court Gunet in seasons assemblant. Some tigue since have nected on to christment the Parties, with designations in the \$45 wries



AS 360: Initial prototype powered by single Turborries AS 361H: Initial military wreken reserved by sixely Technology Astrony KANA powerplant.

AS 2650 Doughly 2: Twin-engined version powered by 485 KW BISS shall Turbomics Arried turbushaft. In 1950 ordesignated as AS 1658/2 Daughin 2, C1,C2, C2 versions AS 365N; Iwanived version with retractable undercarrier.

AS 365N1; Further improvement with 11-bladed fenestron AS 36502: Gel vesice with luthorates 1 C2 asserolasts AS 365KIM: first military version of Invin-engined



Specifications (for AS 565 Panther) Payload: 1527 lb (1600 ln)

Powerplant Pawer: 1566 shp (1168 kW)

Weights

Freety; 4835 to [2193 kg]

Mix speed: 104 riph (256 bet) Barner: 437 mm (\$35 km)

Girt MS21 20 mm cannon node: Microll air-to-

air missiles: HOT wire-quided anti-tank missiles: free-flight nockets; AS15IT and Expert anti-ship

Eurocopter Dauphin/Panther (Force)

council the Dutther recovered by Europea're 1M1 and State project and our arment AS SASSIA utility AS SASCA seti-tunk: AS 38AE navalised version with retractable

shinbone utility: SA 565 SE shinbone armed. AS 36584; Divil wide body veniors reptire 14 and

Poetber 800: Proposed US Army version. Did not ceter AS 36601: Version produced for US Coast Guard under

Harbin 2-9 Haibar: Chinese version assembled from French

Harbin Z-1A-100: Chinese-made venion with WZ-8A powerships, exted to 546 kW (734 shall, which can be

Status



Eurocopter Dauphin/Panther @cocs



Operators

Avegola, Bagitathatsouru, Brazil Grenyl, Barkina Faso, Cameraon, China, Congo, Cote d'Ivaire, Dominiem Republic, Romania, South Arabia Inavyl, Sri Lanka, Taiwan, Thailand 16

Manufacturers

Aerospatials/Eurocopter (France), Helibras (Brazil) and Hurbia

Eurocopter AS 565F (Tim Rinley)

Eurocopter Ecureuil/Fennec (France)

Type: Light beliennter Accommodation: Two pilots, two/thme possenners

Development/History

The three value handed forward Navieral Sea Front is 1814 sandomented by the being ensined 365 series signally which provided awater performance. Since 1960 specialist military

Versions

Fermer (Find) name, using the series 555 series designation. AS 350 Femerall: First protestone with single features

AS 1998A R3/83: Collanimilitary version with single AS 350 Firefighter Socialised version

AS 35012: First arrest version, asserted by 540 kW (212 shall Tarbornica Amici 101, known as frener, AS 55002073 anti-tank version. Other Fennec versions include: AS \$5000200 unawred utility; AS \$50A20A3 arrect, career or HR 3508/R1 Fourtey Unamed Bootline services designated CH-50 and TH-50 by Box-lian Air Foury, 188-12

HB 35001 Esquito: Arrect Brazilian version, designated IVA-Socied HT 184T 2: UK training worker of 45 15088.

Weights Eresty: 2325 to [1146 kg]



Specifications (for AS 350R)

Performance

Lenath: 35 ft 10 in (10.9 m) Height: 10 ft to in 633 mil

Banne: 304 cm (730 km)



AS 3508A in service with the Australian Army AS 355E Fearmalt That production version with two 313 WW420 Selpt Allion 250-C20 nathodrales. AS 355E Loncol 21 Represed version mids have 340 kW (460 Selpt Sachurecan Annies LA, Cyell version haven an AS 355E 7 nies SEL en USA. AS 355E 1 Improved nobar blade version. AS 355F1: French training version. F2 has upgraded

AS 356M2: French arrived version.
AS 556 French: Junior project version. AS 556 French: Junior project version. AS 556M1 second.

servine with 20 mm connect, AS 5555M to liming and stillay version; AS 555M armed nazul version; AS 5556M commonlycotic armed servine; AS 5550M stillay version; AS 5554M nazul stillay version; AS 5550M urnamed nazul version; AS 5550M armed result residue; Z-111; Oliveric produced copy with WZ-40 Protecplant; tabled

is 500 kW (605 shull AS/HB 555F2 shullbar version, designated OH-55 and Vet-55, or Equilso BL by Bouckkar air force, UH-12B by Booklan may, Twin Souteret: UK VIF transport version of AS 555F1.

Status

In production in France, China and Brazil.

Argettina (coust quant), Australia (amm, nuov, air force), Benin, Botswana, Brazel (amm, nuov, air force), Central Africa Bepuble, Domant (Larry), Diplocti, Ecuadini amm, Fiji, France Errers, nuov, air farcel, Jordani Central Melwai

France Jarrey, navy, air forcel, leeland, lectiont, Malarei, Paraquing, Fron Dir Sarrel, Sterna Leone, Singapore, Turnita, UMI (Dob. Dahlo), UK lair force, armyl. Manuafacturers.

Accorporate/Eurocopter (France), Change (Chira) and

Operators

Helitana (Bearit).



Eurocopter AS 550 CS Fem

Eurocopter Puma (France)

Type: Medium lift helicopter Accommodation: Two pilots, loadmaster, 20 troops

Development/History

Web on the S-L320 legals in 1985 to the programme become metal-institute a result of the test Schapel-french belonging approach. The swarter for test Schapel-french belonging approach is the swarter for the sample of the field in the shape of the swarter for the sample of the field in the sample of programme and programm

Variants SA 330: First right French accordings

- SA 3308: French Army Asiation version. SA 330C: Military expert version. SA 330E: Rosel Air Force version, designated Parsa HC I.
- SA 2001: Royal Ad Force venion, designated Paras HC 1, SA 2000 RGC Valkas venions with 1174 AW (1525 shg) Tarton MC powerplant. SA 3000: MStary venion with 1174 WX (1575 shg) Tarton AC powerplant. Designated SA 3000 by Front air force, even through different from the French army's SA 5300. SA 2000 Bt 12 breated O. III throughout with discover-filler more



Dimensions

Com Aigney

Powerplant Project: 2055 to (2000 to best betterning Days and Marketing Days and Marketin

Specifications (for SA 330)

Performance Max speed: 168 mph (271 to Barrer: 309 nm (572 km)

ament

Machine gunc; Romanian versions sported Fight rocket pods; SMT-RM Malyanta (UT-School February) and processing the control of SA 2106: Februgacci versions with OBB-11 radar for machine suscellance and Malife processing in MB-2314: Remarks-hall version. Sealons aggrade understop sciedaliny institution of SOCH Optronic Search and Centus Anni-hall superior portrags. Paras 2000: Proposed Remarks version sits place cockpit. NSA 339: defended-well version.

Status

Destruction continues and in Passa

Operators

Argentina (nozat quantiforma), Algenia, Cameroner, Chile-Larraja, Congo (Zaire), Core d'Iveire, Ecuador, Ethiopia, France-Larraja (noce), Galous, Gaiseo Republer, Indonesia Jair force), Inac, Scrayo, Szonaki, Lebanen, Malyari, Mosocco, Nepal, Nigeria, Palistan (armylair force), Philippines, Pintaga, Romania, Senegantina, South Mirica, Spain, Sudan, Topo, UAE

Manufacturer

Sad-Aviation/Acceptible/Eurocopter (France), Westland Helicopters (US), IRPN (Indonesia), IAB SA (Issuer (Itemania)

felicoptes (UK), IIPN (Indonesia), IAB SA Brasov (Romania



Eurocopter Super Puma/Cougar (France)

Type: Medium lift heliconter

Accommodation: Two pilots, loadmaster, 25 passengers

Development/History

Dama Sext flow in 1978 baseline more reworded Mobile propredants. Although aloned majely at the civilian market. Acceptablish from Eurocopper base marketed freelowments have included a number of night vision cetion, and in-flight refurting for contact-warch and review. The French Army are also planning to use the Cooper as the platform for their HOHIZON ground uncluse ply roter

- AS 133983 Rept military version with Makila assertablets.
- AS 13201: Stretchoff civiline upplies
- AS 13252 Super Ports Mk 2: Chil trampart AS 33212 Super Pursa Mix 2 MP. Civil MP transport
- AS 355M: Stretched military version, annihilation crased AS 332M1: Stetched military venion.
- AS 532 Coagar Mk 1; In 1960 E, F and M venions redesignated and the name Couper adopted for military sales. military armed/marmed: AS \$305C rayal, armed anti-



Batar digenter: 51 ft 2 in (15.6 m) Height: 15 (t. 9 in (4.8.)

Furnishmen AS 332 M1 Super Puma Specifications (for AS 532UL Cougar Mk 1)

Inn Technology Makila 1A1 free tarbines

Performance

submaring/unti-ship.

Eurocopter Super Puma/Cougar Furon



aracopter A5 532 Of Cougar Ink 1 with Horizon battletield surveillance system

Eurocopter Super Puma/Cougar (Furon

AS 522 Caugar Mk. 2: Stretched version with 1549 KW (2104 hb) Makila 142 powerplant, Civilian counterpart designated Super Paren III. In-Hight reliating substant. AS 522A2 armed combat rescue version; AS 522M2 anaerzed utility with stretched fuselage; AS 522M naval, armed antistraturative.

Coupe 1800. Reduced capatally capacity review.

AS 52200. Brown Surveillance version developed from Orchidec system.

BAS 32200. Beforesion stilly designation.

ALS 33216. Independent record devicenation.

CH-34: Brazilian designation for 332M. HL17: Sponish Army designation for 332B. HB211: Sponish Air Force search and recove designation. HL21/A: Sponish VP designation. HB21/B: Sponish Starth and recover designation.

Status In production

In production in France and Indo

Operators

Cameroon, Ohle Eminglassophie (nevel, China, Emiga (Dairel, Ohle Obries, Coudula, France Jair (nevojarnel, Gibbon, Indeserois Bursylle Smort, Ilou, Lipsu, Archa, Nizosat, Maripas, Metto Jair (nevel, Hepst, Helbertunek, Rigeria, Paraman, Peru Eming, Chata, Saud Andral, Sanghali (nevel, Sepapore, South Kirea Jair (nevel, Spain bornel, Sweden Land Korea, Sand-Sanda, Bashand Jair (nevel, Ingala, Jair (2014), Delice (1914), Venezuela.



Manufacturer

Acrospatials/Eurocopter (France), IRPN (Indonesia) and Singapore models were assembled in country from bits, TAI (Turkey) has signed a deal for co-production. Cougar (Tim Ripley)

Euroconter Super Puma/Cougar (France)



pter AS 332A2 Cougar rescue version with in-flight refuelling p

Eurocopter BO 105 (Germany)

Tune: Light helicontex Arrangementation: Tun pilots, these processors

Development/History This German light, believater made its first Blok in 1967, and

by the wid-1970s was in widespread service with the German Array - some 50 light information and 200 BBT middle arred arti-tank revisions were eventually delivered. Below in the Franco-German lings programme mean it will have to solder on in these roles until well into the next decade. It has been widely experted to evision and military contenens amont the world.

Variants 80 105C: Initial version. 80 105CP: Basic likely observation (at lite version)

BO 105CBS: Stretched utility version, with capacity for five passengers.
BO 105CBS: Stretched utility version, with capacity for six

BD 105LS: Canadian produced version with up-rated Allison 250-CRIC preerphast. BD 105M (VBM): German scoot version.

BD 105P/MH-1: Basic German anti-armout version litted with six HDI missile tubes. BD 105P/MH-1A1: Improved German anti-armout versions

BD 105P/MSH: Proceed German night attack vestion.

Stringer an-15-air manues.

BD 105/Ciphelia: Trials aircraft with mast-mounted sight
BD 105ATH/MA.16: Spanish anti-aircour session.



Specifications (for BO 105C)

Two Allicon 250-C208 turboshufts Power: 842 shg (626 kW) Dimensions Length: 28 ft 11 in 83.8 m)

Weights

Length: 20 ft 11 in \$3.8 m] Refer diameter: 32 ft 3 in \$5.8 m Height: 9 ft 11 in \$1 m] Max 1/0: 5511 fb (2500 kg) Phyload: rip

Max speed: 149 mph (240 kmh) Range: 550 mm (1000 km)

Armament HOT and TON user-quided a 20 mm Rheinmetal cannon

Eurocopter BO 105 (Comany)

BO sps@SRNR/A.15c Spanish armed scoot version with 20.

PO MACLORINA LC: Specials placemation services NEO 100 Baric Indonesias half sening

NEO 1055: Startehol Infrarries version BD 10508S-SIMSS: Search and resourcearding sersion

80 105 LS A-3: Property by two Allison 250-C 29C engines. DC-Scower Elect High performance complete of CRS for civil

Manufacturer Misserschmitt-Bollow-Bohm/Favoronter (Germany), IIPN



HAL Advanced Light Helicopter (ALH) (India) Accommodation: Two pilots 12-14 passengers

Type: Light multi-role beliconter

Development / History

Brownid peridons throughout the 1980s deleving the Set fight until August 1992. There entertown are now those service with the Indian acmed forces. The first order for violating 1990 A production rate of 76 per service separated force. 2002 organia

ArmylAir force: skid landing pear News wheels and folding tail

Light Attack Helicopter; Proposed garohia version.

Status

Manufacturer Himbeston Accompanies Limited (HAL) Bodish HAL Advanced Light Helicopter

Specifications Powerplant

Power: 2000 shp (1452 kW)

Moight: 16ft Six (4.98 re)

Empty: 5511 lb (2500kg)

Cruising speed: 152 mph (245 kmh) Birrac: 496.8 pm (800 km)

Armament

mission: mire discessors: display sonor; two

Eurocopter Tiger (International)

Type: Attack beliegater Accommodation: Pilot (front), weapons operator (rear) in tandem

Development/History

105 in German service. The Tiper has its printer in a memorandum of understanding signed by the two countries is 1984. After a protected ancesu, a development contact

cuthoris in the 1990s have forced the delivery programme. to be startiched out, with the first batch of 100 air/sames for each country not entering service until the next century

HAC-Miner French anti-tank version. PAH-2 Tiper: Initial German anti-tank version.

was signed in November 1982 and work began in cornect to

Eurocapter Tiger Specifications

Powerplant Too Millifolis-Roscollurbornica Milli 200

Dimensions Lengths 45 ft 11 in [14 ml Rater diameter: 42 ft 7 in (12 m) Height: 14 ft 2 in [4.3 m]

Weights

Mas speed: 174 mob (200 kmb)

Armament

air-to-air missiles: 68 non markets: \$PAH-29NAC AGM-114 laser-enided anti-tank missiles;

Eurocopter Tiger (International)

URIT: German multi-role close support version, originally designated UHII. HCP: Export multi-role sension, without mod-mounted sixts.

nithaut roof-mounted sight. U-Tiger: Export anti-tank version.

Status in pre-product Operators

Manufacturer Luxcopter (France/Germany)



EH Industries EH.101 Merlin (International)

Type: Shiphorne ASW beliennterlutility beliennter

Development /History

away fundan was swred in 1986 to seared with hubbre prototore firm in the UK in 1982, and since then the utility venices

contractor, Lockheed Martin is prime contractor, being

Variants

Media BAS 1: Bosol New maritime beliconter DL101 ASWIASWY: Italian muritime believater. EH 101 AEW: Italian airborn: early warning version. ER 101 Utility: Italian naval transport version.

Accommodation: Two pilots, observer, sonar operator



EN Industries EN 101 Morlin Specifications (Basic Naval version)

Powerplant

Dimensions

Length: 74 ft 10 in [22.8 ml Height: 21 ft 30 in 65.6 ml

Weights

Performance Max speed: 102 moh (302 kmh)

Armsment



CII-148 Petral: Proposed Conadian maritime version. CII-149 Chimo: Proposed Conadian resear version. Commutant: Proposed Conadian resear version.

In production.
Operators

Status

Haly (navy), UK (navy)air force).

Manufacturer

Agasta (Naty) and Westland

Beliengtery(GD) Westland (UK).

Left EH Industries EH.101 Merlin

EH Industries EH.101 Merlin (GKN Westland)

EH Industries EH.101 Merlin (International)



NATO Helicopter Industries NH 90 (International)

Tune: Multi-role medium-lift/maritims believetor Accommodation: Two pilots, (NFH) three systems operators, (ITH) 20 troops

Development/History This multi-rectional project become in 1985, and originally

investored the mattern, However, Britain pulled our in 1982. continue building the NATO Frigate Helicopters (NEH) and

broan in 1992 and the first nestature flow in 1996. The Defence enthycles in Western Europe have led to the programme being scaled down and delivery dates slipped. In

mid-1997 the funding for the production delivery schedules. 2003. Germany wants 205 particul transports from 2003 and 31 NFH from 2007. France has onleved 27 NFHs from 2005. and 133 THK from 2011, and Halv musins \$5 MHs and 143. 100k from 2004, In total, 647 holicopters are on order, but

NRH 90: NATO Frigate Helicopter for shiphorne anti-

Status In production.

Operators 34

NH Industries BM 90 Specifications (For NFH) Provenolant

Two Salts, Street Surfaces on Place of RTM 322-

4900 sto [1528 885]

Length; 52 ft 10 in (16.11 m)

Weights

Max T/O: 30 062 to (9300 but

Arti-submarine tarandors: anti-ship missiles:

Manufacturer



NH Industries NH90

Agusta A 109 (Italy)

Type: light beliconter (for A 109CM) Accommodation: Two pilots, six passengers

Development/History Asset a's study light beliegeter first flew in 1970 and has president first paterned pension with the Bridge Army in 1660. although Releases is the only cannot engineer by this model To date, more than 526 have been renduced in all military

Marianta A 10% Initial renderting various

A 1014 My II: Cull service A 1010: Wide hold version with improved transmission. A 101FDA: Ratio Italian array version

A 164CM- Corret production military veniors with some A 1098A: Belaine Acres sentine with HeISVIV who existed

A 10%: Interpret transmission and lower near for more

A 103K2: Swiss export version A 106KM: Fixed undercarriage, with 550 kW [738 shall Surfaceners Assist JK1 Powerplant for 'but and high' operations.

A 1038X- Need venior A 101MAX: Medical execution version A 109GdF: Coast quart version A 102 Power: Iwo Pratt It Whitney 2000 powersfast, each

Empty: 3503 fs (1580 kg)

Italian army Agusta A109 Specifications

Powernlant Two Allison 250-C200/1 turbeshofts

Max speed: 190 mph (211 kmb)

Performance TORUZA misconsided until turk misster-

rated to 732 sha (546 kW). Status 36

Operators Argentina (navylarny), Eckjam, Italy Jamy), Malaysia, Peru

Manufacturer



Agusta A109 Mangusta (Tim Ripley)

Agusta A 129 Mangusta (Italy)

Type: Light attack belicopter Accommodation: Two pilots in tandem

Development/History
Baly's datasether Manyanta (Mengazore) in the first contains
designed Wistoria Basepan states belonger to order
foreities service with a MAIO country. Bith a took record
in belonger construction during book to 3152, Agusta
teepin working on the Manyanta in the resid-1070s in
creases to find Billian from reconstruction of a particular
services of the Billian from reconstruct for a particular

US experiments with the Color and early versions of the figures observably influenced the decays of the laboyatts, which made to first light in 1000. For postuppes were figing by 1000, with a delivery date scheduled for the end of 1000. However, the first postureties insend more and editored until 1993, with 1.5 being subsequently posture per models. The delip is definent until the laboyatte produces with the laboratories used to furnish produce of the control of the laboratories of the laboratories with the laboratories of the laboratories

results sight upton.
The rimital trainal Arms cader for 60 alexed they piece been followed by piece to develop a multi-side security-maps version. This varies from the security-maps version. This varies from the security-maps version. This varies from \$1.50 mm \$1.00 mm \$1.00 mm \$1.50 mm \$1.

ation: Two pilots in tandem



preta A129 Mangu

Specifications

Dimensions Length: 40 ft 3 in (12.3 in) Botor disserter: 39 ft (11.9 in

> Weights Empty: 5675 Ib (2529 kg) Max 1/0: 9029 Ib (4000 kg) External warkest: 2645 Ib (1200

Performance Max speed: 183 mph (294 km)

Max speed: 183 mph (294 kmh) Endurance: 3 hours 5 minutes Armamont

Armament
four had paints; HOL TON 2 or 2A wire-quided
arti-laris risolae; Helline laser-quided artitaris risolae; Helline laser-quided artitaris risolae; AMI-4C Sadvariote; Stinge,
Javelis, Mozzal ai-to-air risolae; risochine que pods; Free-flight moket pods: 20 nus Gutding gas chis dusect; or 12.7 mm (MS-lie) chis que Variants

A 129 International: Expert venice with two DRICC 1800 A 129 Shinbarne: Proposed repolited version

Status

Operators

Manufacturer Agenta (Italy)

Agusta-Bell AB 212 (Italy)

Type: chinhorne anti-submarine heliconter Accommodation: two pilots sonor operator radas operator or reuse possensen

Development/History

This specialist auticultanguine sersion of the nonalor 412 airframe has become the standard dripborne beliconter for includes MFI ARL SSEE, MMANUS, 2015, or Fermell Sevenses. Bendix ANWCS, ISMF dustries sugars how been fitted for 1985-66 Gulf War sobile Ballon Good Speech and Earlich

Acusta Otaly).



(Tim Biolevi Specifications (for AR 212 ASW)

May 100: 11 126 It-00000 had

Max served: 122 meh (196 kreh) Basec: 300 nm [067 km]

Armament den missire: Mit 44, 46 or MO 44 tornedors:

Powerplant

Length: 42 ft 4 in (12.9 m)

Agusta-Bell AB 212ASW

Weights

Empty: 7450 to (4320 kg)

Kawasaki OH-1 (Japan)

Type: Light attack and observation helicopter

Development/History
The first military belonger developed entirely in Japan is

The first military helicopter diveloped extricely in Japan is, interfield to replace the OH-Li in Japans of similar diveloped to replace the OH-Li in Japans of similar Defence. Force service in the early pair to the rest centary. A merick up was revealed in 1964, and the first protestigate five two years later. Similar in appearance to the Appais in 129, but the OH-Li is divers in derestient of linear and 2000 special of the OH-Li is diversified the OH-Li is of the Defence shades in divided tharitation for the District three divided tharitation that the District three divided tharitation three divided three

Variants

Status In pre-prod

NI.

Manufacturer

Acrommodation: Pilot ounnerlobsener

Kawasaki OH-1 Specifications

Powerplant

Two MH STI -10 turboduch Power: 1318 slip (1768 kW) Dimensions

Length: 39 ft 4 in (12 m) Rator diameter: 37 ft 90 in(1 Height: 12 ft 5 in (3.8 m)

Weights Impty: rela Max 1/0: 7716 to (3500 kg) Paylead: n/o

Performance Orabing speed: 151 raph Bange: 124 nm (200 km)

Armament Toolsha Type 91 ain-to-air messles; anti-tank guided missles; free-flight rockes; tarret- and

PZL Swidnik W-3 Sokol (Poland)

Type: Medium-lift multi-nurpose beliepoter Accommodation: Two pilots, 12 passengers

Development/History Bill freshold before to most on appropriate the old Mich.

2 house but thing in 1929 Production beam in 1985, and it has since expend service with the Daloh sound farrer. the help of South Africa and lysel, to improve the report

Variants

W. T Schol: Standard ried and military project 74GAV (1000 shall and experity for 14 passengers. W-38M Analonda: Polish Navy search and rescue version.

World's Low cost aspect version for Polandi

W-3MM Perceived waved strike version W-1A: Improved avionics venion for western markets. W-3M: As W-3A with floatation bags.

Status W-3WB Hugar: Armed version upgraded with assistance

W-3 PW Proposed electronic warfare version Operators W-3 MS/MW: Proposed questio venion with tandem Czech Republic, Poland Larmahanodair forcel, Mannana,

SW-5c Proposed aprenaised with Prott & Walton Platf-978 Manufacturer

Specifications (for Sokol)

Powernlant

Performance Power: 1000 sha (1342 MM

Weights tank missiles: 9MO2M Stocks (SA-7 (Seef) size Empty: 7275 ft (2000 kg) Max T/O: 14 110 lb 95400 kg/

PZI Swidnik W.3 Sotrol



Kamov Ka-25 (Russia) NATO reporting name 'Hormone'

Type: Shinhorne anti-submarine beliconter Accommodation: Two oilots funtional 12 nassenores

Development/History

Some 460 Ka-25s were built for service almost Soviet Navy
him from 1965. It has one been withdrawn from Dunish

Rany service,

No-Jean-Leave receives.
Ka-26F Proposed Stral-based attack beforeper.
Ka-26F Minimere-X-C object JASV version with search radar,
MAO sensor, dipping senur and sendoury burches.
Ka-25Is "Hermane-E1" Specialist receive to provide target
acquisition mid-course synthetic for solventive—and shipburched ratios middle. Particle reductable medicansides.

without anti-submarine worker of Ka-258sh2: Mine war fare version Ka-25K: Pustobar flying coars.

Status

Operators
India Jessel, Bassic Jessel, Syria Jessel, Vietnam, Yagoskivia

Manufacturer Kumertau Asiation (Bashkartostan/Raysia) and Ulan Udo

Komerton Asiation (Boshkortostan/Rossia) and Ultin Ude (Bossia) to Komov OKB (Russia) design.



Specifications (for Ka-25Bsh)

Too Mars GID-3F turboskafts Power: 1776 shp (1324 kW)

Length: 32 ft (9.7 m) Rotor diameter: 51 ft 7 in (15.7 m) Height: 17 ft 7 in (9.4 m) Performance
Max speed: 130 mph (200 kml)
Range: 351 nm (650 kml) mith external tanks

Armament

Anti-submorine torpodoes; depth charg

Kamov Ka-27/28/32 (Russia) NATO reporting name 'Helix'

Type: Shipbome anti-submarine helicopter

Development/History
The Ka-27 series has a larger fiselage than the Ka-25. The
Test prototype flee in 1974 and it entered frontifer service
with the Soriest Nave in the cards 1990s. Its rebest design

Variants
Ka-23PL 'Helbe-A': Basic version for Soviet Navy, also know
as Ka-252PL

Ex-27PS 'Helix-D': Naval search and resear version.

Ex-27PV: Armed version of PS.

Ex-28 'Helix-K': Expert version of PS.

Ea-325 Melia-C1 Civilian utility and rescue version, with graded avianics and search radar. Ea-32f 'Helie-C1 Civil utility sersion.

Ka-32K: Divil Figing Crare. Ka-32f: Onli utility sension. Ka-31A1: Fire Egitcing version.

Status

Operators India (novy), Resia (novy), Victnom, Yugorlavia (novy).

Manufacturer Kumertau Aviation (Bashkortostan/Nussia) to Karnov OCB Accommodation: two pilots systems operator



Specifications (Ka-28)

Powerplant Teo Klimov IV3-117V terbodialis Fower; 4380 sto (1096 VIII)

Dimensions Length: 37 ft. 1 in (11.3 m) Rotor diameter: 52 ft. 2 in (15.5 m) Weights

Payload: 11 023 lb (5000 kg)

Performance
Max secred: 160 math (270 kmh)

Armament

ti-submanine torpedoes; depth ch

Kamov Ka-29 (Russia) NATO reporting name 'Helix-B'

Development/History

Capitalising on the success of the Ka-27 family, Kamory fielded this specialist assault helicogeter version in the late 1990s. It was designed to operate off the Soviet Mavy's availabilists, landing ships, and is considered to be the 'nami

Variants

Ka-2900 Yelki-U: Basic assault transport version, also known as Ka-2521B. Ka-2900: Arbone early warning and surface surveillance version, exclusivated Ka-31 Ka-23E-analytics outlinshops to version based on Ka-39.

airframe. Status

Operators

Manufacturer

Manufacturer Kurrertau Aviation (Bashkortostar/Bossia) to Karrov OKB

Kemov Ke-29 Specifications

Powerplant Iwa Kimor IV2-1179 tarbo Prace: 4380 sha (1284 89)

Dimensions Length: 27 It Lin (11.2 m)

Reter dismeter: 52 ft 2 in (15.9 Height: 17 ft 8 in (5.4 m)

Weights Erupty: 12 170 lb (5520 kg) Max I/O: 27 775 lb (12 900 kg)

Payload: 8818 ib (4000 kg)

Max speed: 174 mph (200 kmh) Range: 248 mm (460 km)

rmament

Two 7.62 mm Gatling type machine guns in doors; four hard points; 9M114 Shturm (AF-6 Spirall radio- and Inter-quided anti-tank missles; free-flight rockets; 23 mm or 30 mm run nodi.

Kamov Ka-50/52 (Russia) NATO reporting name 'Hokum'

Tune: Attack believnter Accommodation: One pilot

Development/History

The Karney CKB has had an interest in attack believators nowall believeter Kneen revenued most in the 1930s novice

The Kamov Ka-50 first flew in 1902, and wan the contest amorited in public in 1992, the Ka-50 is more being of front for export as the 'Westwolf' or 'Heliconter Soldier', although it has also been called the "Black Shark" in prorestional

production versions of the Ka-50 base been completed and work continues on new versions, with a night-attack and

two-seater variant flying in protetepe form. points for a simple-seat design. Karnov (903) had to incorrection mounted wight, head up displays and computer regingtion



Specifications (for Ka 50) Powerplant

Performance Endurance: four hours with auxiliary tarks

Ereter) air-to-surface missiles; free-flight rocket

Kamov Ka-50/52 Werewolf/Alligator (Russia) NATO recording name Wolum'



first tricores an explosive device to blow all the rotor blades. prior to firing the pilot safely away from the function.

Variants

48

V80: Initial modulator Ea-50 Winequalfifflack Shark/Helicontex Soldier Jamefficially 'Hokum-A'sN-805h1: Basic single-wat version. Ka-52 Alliester funofficially Hekum- BT AV-805h2: Two-

Operators

Manufacturer Progrey, Americany Asiation Co (Russia) to Kamoy OKB. (Bussial design,

Kamov Ka-50/52 Warswolf

(Tim Bioley)

Mil Mi-2 (Russia/Poland) NATO reporting name 'Hoplite'

Type: Light helicopter Accommodation: One or two pilots, eight passengers

Development/History Under Warson Pact centralised defence plans, the PZI.

Under Warnam Pact controlled defence plans, the PZI. Swissiah plant was omnisted as the sele production size for the MM DBI MH-2 design. The first Publis half MH-2 Plon in 1965, and more than 5200 over built up until production coised in 1961. The light utility belonger saw extensive service with Swist and Warnam Pact amend forces, including conduct operations in Adjournal and offer travalle spats.

Variants Mi-21: Una

Mi-20: Dual control trainer.

Mi-2R: Agricultural cop sprayer.

Mi-2S: Medical execution version.

Mi-2RS Adder: formed version with 23 mm cannon and and

cabin machine guro.
Mi-2000 Salumandra: Armed recornalisance venion with
23 mm cassos and free-flight nedez pods.
Mi-2000 Armhandr Artifician) venion with Midwatin.

guided missiles.

Mi-200PG: ap-guarred version with 9M12 Strela 2.

Mi-2C Chekla: Chemical and nudrae survey and smale

Mi-2C Chekla: Chemical and nuclear survey and smoke layers.

Mi-2B: Upgraded vession with improved electronics for

copert to Middle East.
Mi-28M: naval rescue venion.
Mi-28m: Recognitionary venion.

Mi-2Re: Reconnaissance version. Mi-2RS: Chemical reconnaissance version. Mi-2Sa: Dual control traines. n: One or two pilots, eight passenge



Specifications (for Mi-2T)

Powerplant Iwo Kimov GID-250 terbeskal

Dimensions Length: 37 ft 4 in (11.4 m) Rotor diameter: 47 ft 6 in (14.5 m)

Weights Empty: 5295 lb (2402 kg) Max T/D: 8157 lb (2700 kg) Performance

Man speed: 124 mph (200 krah) Range: 227 nm (440 km)

Armament Free-fight reckets gan and cannon pods; 90014M Malyudia (AT-3 Sagger) wire-guided anti-tank misoles; 94032 Strela 2 (SA-7 Grail) airi-ta-air misoles



MI-2FM: Survey version.

Mi-2 Platae: Mine-laying version. Umi-2: Reconsulsance trainer.

Variant 51: East German reconnaissance servine.

Variant 56: East German maritime version.

Variant 56: East German version

Konin führte Bunks Version with Milane 2504/2001 turbushoft.

Spitfire Taurus: U5-built version.

Status Production suspe Operators

Belgania (sir force), Cecch Republic, Estonia, Ghana, Gainea Republic, Iraq, Labria, Uliya, Lithaunia, Nicaragua, Poland Limmghinyshir force), Romania Jair force), Bania Lamgdair force), Stonialia, Systi latir force), Ulminie, USA (Jarrey).

Manufacturer
P21. Swidnik (Poland) and Spitine Helicopter Company (USA to a NR OCO Diamid design.

Left Right Right Mil Mi-2 'Hopfite' Mil Mi-2 'Hop (Tim Ripley) (Tim Ripley)



Mil Mi-6 (Russia) NATO reporting name 'Hook'

Type: Heavy-lift helicopter Accommodation: Two pilots, flight engineer, ravigator, radio operator, 65-75 troops, 41 stretchers

Development/History

bingrid belignator of its generation, the Mint Saw widespecial

Variants

MutP Chillen nancare sening Mi-fil: Military utility version

ALLEANDAYPy Hank-II': Command N.W. version Mi-ERISTAYs 'Heek-C': Command type also called Mi-22 M. 605: M.Drug group waring

Mad Philipper line fighting service. MutS: Medical computing arming Mi-Glat Convertible version

MI-652: Feel transporter Status

> Occrators Alberta Empt. Othiopia Ion. Los. Peru formelair frend

Manufacturer Rostvertel (Factory 160) (Nossia) and Factory No 23 (Rossia) to MI OUR (Bassia) desires.

Dimensions Leneth: 108 (1 10 in 2332 ml Batar digraeter: 114 ft 10 in (15 rs)

MIT MIS Hook'

Powernlant

Performance

Weights

Specifications (for Mi-6T)

Mil Mi-8/17 (Russia) NATO reporting name 'Hip'

Type: Medium-lift beliennter Arrenmodation: Type pilots optional flight engineer, 24 types, 12 stretchers

Development/History

1900. Since the denier of the Soviet Liver, the base soundary of the design, and it to prec, he called it to care a region of the design and it to prec, he called it to care a raise store for self in the said indeporter ranket. Although takes the associated restrict markets we gloss associated below the associated restrict markets with the prefer the care to allow it to openie to the ends extreme the property of the prefer the care to allow it to openie to the ends extreme density raises. The first limited the prefer the care to called the prefer the called the prefer the called t

significant improvement was the fishing of the up-registed Michael [Michael Achiel and Conjugated Michael Confugated Michael [Michael Achiel and Conjugated Michael Confugated Confugated Michael Confugated Achiel Confugated Michael was the Mosky conflict on the frings of the old Novice engige and in the former bypatish shift because the Michael coupling electronisty in European was made size to 1991. The United Malatine has the less summer with with so support in proce-begging and Institute Confugated Michael Confugated 13,000 how been shift for home and more than 00 egones.

Variants Mi-E Ylia-K: Sinck copined and objects

Mi-8 'Hig-8': Twin-engined prototype powered by Klimov PVZ terbochefts. Mi-87 Tilla-C': Standard production sension, proceed by the - William Control of the Control of

Mil Mi-STV 'Hip-H' on UN duty in Crostie Specifications (for Mi-SMT)

Powerplant Inn Kirtov TVs 117MI surbeskafts

Dimensions Length: 50 ft 7 in (18.17 m) Bater disparter: 62 ft 30 in 121

Weights Empty: 14 foo is (6789 kg) Max I/O: 26 455 is (12 000 kg) Performance

Max speed: 156 mph (250 kmh) Rampe: 510 mm (160 km) with auxiliary tank

Armament
Door-mounted 12.7 mm machine gun; 6617
fatanga (Al-2 Souther) and 5614 Malyutha
(Al-3 Suggest) wire-guided artifatoric missiles;

(AT-3 Sugged) wire-guided arti-stark missles; 9M114 Shrann V (AT-6 Spiral) radio- and lase guided arti-tank missles; 5M120 Vikin (AT-1) laser beam nilling guided arti-tank missle; 9M39 Iglo V (SA-18 Grosse) air-to-air missle.

Mil Mi-8/17 (Russial NATO recerting name We'

of being armed with free-Hight nocket pods. AUFI Ulan U built versions.

NE-BPS: Passenger and VEP transport version, also known as Mi-BIP, S or P. Mi-BIPS: Althorne liaison and command version. Mi-BMIPM: Basker military designation for un-empired.

version with TVJ-117M Insteadards. To have minor equipment changes. Uses the-built version known as Mi-80MUNI-173, Mi-10 MUNITY-17-27-3 are conversions to Mi-17 standard with port tail notes.

Mi-MMTP, TVJ-127MA moneyed version, with personalized.

color.

Mi-BTRY Higs-E: Armed version with 12.7 rum nuclaine
gas in rose and pylon-mounted Falanga missiles.

Mi-BTRY Higs-P: Armed county variety with the fracety color.

for Malyetha missiles, MI-BEL: An accident investigation version. MI-BRIX: Decommissing/Artiflery spotting version.

Mi-MMPS: Search and recore version.
MiRV2PU or VYX: Arbonne radio or continued post version.
Mi-MPS Thip-O': Arbonne command post version.
Mi-MPS: You it high! desert version.

Mi-SWYV2FU 'Hip-G': Airbone command past and radio relay sension. Mi-SSWY 'Hip-J': Communications jammed (LIMT version. Mi-SFM 'Hip-K': Daport electronic surface sension.

Mi-BFD: Point airbonne command post version Mi-BMA: Archifoline exploration version. Mi-BME: Military ambidance versions, also known as Mi-BF continued.



Mil Mi-STV 'Hip-H' of the Ukrainian Army Aviation on UN duty in Creatia (Ten Ripley)

Mil Mi-8/17 (Russia) NATO reporting name 'Hip'



AM MI-SM 'Hip-H' of Iraqi Air Force

9



ANI MI-17M THO-H"



Mi-RIO-Limit-methods fool session with external tasks MIR-BAMESh: Night offices and combat praces senior with Mi-17 Win-M; Expert designation for un-engined Miamtirowall version with TV2-117MI turbushalts. Mi-17PREGRAP 'Hip-HIGWI': Export sider igentaling version

MISSAMIPSAMIUMINAMIPMIPMAMINAMIN Mi-177-7: Czerb electronic warfare werton Mi-19MB Feport yenion, with NO-117VM emites, and clamshell rear cargo doors and loading ramp. Mi-17Kf; Expert senion with new aviowics. Mi-17-1M: High altitude parentiars version with 7/2-

MK-30: Proposed Korran-built AS-17-1 version Mi-17-M: Military tomport and question version, with Trit-1175M creiner Mi-17-TWI: flying hospital venion. Mi-122 (Mi-12MA): Fenort service to MI-0 MT/CO

1171M croines.

Mi-18; Be-used designation for original prototone, new Mi-19: Similar to Mi-9 airbonne command post.

Mil Mi-8T 'Hip-C' of Croat Air Force

(Tim Ripley)

room owne Bornia

Foyet Dritera Ethiopia Finland Germany farmed Burnary India fair forcel, Indonesia fair forcel, Iran, Kazakhstan, Laos, Sudars, Suria Isir forcel, Tadikisitan, Tarkey brendi

Udeckistan, Ukraine farmfair forcel, Venezueta, Vietnam. Manufacturer Kazan Helicopter Plant Bartanstanl, MJ Moscow Helicopter Plant (Bassial, Property Americany Arietica Co (Bassial, Ulan



MILMUS AMTSI



Mil Mi-14 (Russia) NATO reporting name 'Haze'

Type: Land-based ASIV helicopter Accommodation: Two pilots, sonar helicopter, MAD operator

Development/History The M-14 is an amphibious version of the Mi-II developed

for the Soviet Navy as a shore-based ASW and re

...

Mil-16P, Yazze-M-ASRI vertion with displays some, search sollar, returnable search date and assessions dispenses. She for the properties of the Park White All, some adoption for the properties of the Park White All, some adoption for the Park White All Park White All Park White All Park Mil-14PM tasks were search to the properties of the Mil-14PM tasks of the encourage or within postularity. Mil-14PM White Conference of the Park White All Park Mil-14PM White All Park White All Park Mil-14PM White All Park

Status No longer in p

Operators

dyarki (navy), Caha, Ethiopia, Uhya (savy), North Korza, stand (navy), Romania (navy), Rossia (savy), Syrin (savy), SA Lannat, Yusanlavia (navy),

Manufacturer

lacan Helicopter Plant (Tartanstan) to Mil GKB (Russia)

1

Mil Mi-14PS 'Haze-C'

Specifications (for Mi-14PL) Powerplant

Power: 3400 shp (2536 VV)

Dimensions
Length: 60 ft 3 in (184 vt)

Weights

Empty: 25 900 ft (11 750 kg)

Max 7/0; 30 885 fs (14 000 kg) Payload: n/s Performance

Max speed: 143 mph (230 kmh) Range: 612 mm (1135 km)

Armament Arti-submarine torpedoes; depth drurges; door

racine quis

Mil Mi-24 (Bussia) NATO reporting name 'Hind'

Tune: Attack/assault belicenter Accommodation: Pilot (rear), weapons operator (front), optional flight engineer, eight troops

Development/History MI OKE in response to American experiences in Victoria.

with a loans college coasses by Septet/Bussian service it is The first prototype made its maiden flight in 1970, but this version boosted a full plans or 'overs house' cockpit.

rather than the more-familiar tandem broad of latter first combat coperings, and Soviet pliets soon came to value

in 1984, Budget cuts mean Russian plans to replace the Mi-24 have yet to come to fruition, so it will have to soldier on



Specifications (for Mi-24P)

Powerplant

Dimensions Height: 13 ft [3.97 m]

Mil Mi. 24K 'Hind-G2' of the Ukrainian Army Aviation Performance

Max speed: 200 meh (335 kmh) Range: 540 nm (520 km) with auxiliary tasks

Armament in more: 98/17 Falanca BAT-2 Swatterl wire-Spiraffradio- and laser-quided anti-tank missile:

V-24/A.10 'Bind-B': Per-production versions, with 75'-2-1117

Mil Mi-24 (Russia) NATO reporting name 'Hind'



province stand to 1980 the MLNAR Hint & Original production version with lawner

house' front rubin, starboard tail rotor, TA-3-112 enrises and Mi-24U Hind-C: Urarmed training venion of "Hind-A".

Mi-24011: Deal-control trainer with baset deleted

Mi-24V 'Bind-E': Introduced radio command-suided Sytum missiles. Powered by TV-3-117A. engines. Enoug as Mi-24W.

Mi. 24MP-16, 24V with twin 73 mm runners in more turnet. MIZHR, RR. Rkb (Rcb) or RXR Hard G: Chresical and nuclear

survey/someting version. MC-24MM: Night attack version with pentern censor and new

Mi-19M: Export piolit attack version with western servor. avionity and new Mi-28-style titanium rator head.

Mi-24PS: Police/sura-military version.

Left: Mil Mi-24V 'Hind-F'

ht: Mil Mi-24V 'Hind-E' (Tim Ripley)

(Tim Rinley)





Status

Operators
Afglanistan, Algeria, Ampela, America, Acerbeijan, Belana
Belgania (air Forcet, Cambodia, Courtis, Cecchi Republic,
Econolise Distractors (Seath Milital) Etitlesia Endosd.

Bulgaria fair forect, Cambolia, Orontia, Cecchi Republic, Decreative Outcomes (Scotti Alvica), Uniopia, Finland, Hungary, India fair forect, Iraq, Kazalintan, Losa, Libya (sir forect, Mongolia, Meziandiane, Peru lair forect, Peterd Jornell, Russia larmyl, Buanda, Siena Leone, Shoukis, Sri Lania, Sudari, Syria Jair forect), Padjikelina, Udekkoza,

Manufacturer

Rostvertol (Russia) and Progress Assencycy Aviation ((Russia) to Mil OCB (Russia) idesign.



Right Mil Mi-35

might: wan wards

(Tim Ripley)



Mil Mi-26 (Russia) NATO reporting name 'Halo'

Type: Heavy-lift helicopter Accommodation: Two pilots, flight engineer, navigator, 80 troops, 60 stretchers

Development/History

Designed to explace the M=6. the M=20 is the most powerful belicopher in the warful. It has a cargo carrying capacity equivalent to that of the C=130 transport aircsaft. First thown in 1972, the M=26 extremt Soviet Army Assistanparties in 1985. The URI has character a number to such

Variants

Mi-26: Basic version. Mi-263: Civil servine with D-136 conince

NE-268: Civil version with D-136 NE-26MS: Flying hospital version

Ni-25IM: Planted apprais.

Ni-26M: Upgraded version with D-137 engines. Mi-26P: Proposed 20-year processor version.

Mi-26P: Proposed 70-sea Mi-26TS: Export version.

Mi-26A: Upgraded navigation systems Mi-26BC: Wide-hodied version with D-136 engines Studies

Operators India (army), Peru, Rassia (army), Ultraine (army), United Mariane

Manufacturer

MI No 20 Tabe

Specifications (for Mi-26)

Two ZVIGB Progress D-135 free-t turboshafts Power: 22172 shp (16534 kW)

Length: 110 ft 8 in (33.7 re) Bater diameter: 105 ft (32 re) Height: 26 ft 8 in (8.2 re) Empty: 62 170 to [28 200 kg) Empty: 62 170 to [28 200 kg) Max 1]0: 123 450 to (56 000 kg) Payload: 44 000 to (20 000 kg)

Aux speed: 183 mph (255 km) ange: 432 nm (800 km)

64

Mil Mi-28 (Russia) NATO reporting name 'Havoc'

Accommodation: Pilot (rear) and ounner [front)

Development/History Superficially similar in unaccurate to the American Anachethe Mi-20 made its first flight in 1902. Since the aircraft lost the Soviet Army Asiation attack helicoater contest to the here undercoins almost continuous development for over 15 years to allow it to fix armed attack missions at very low allitudes. Latest versions on display at western ainhows



include state of the art night visions sensors and most-NE-2890: Night attack venion with improved sensors and

Status

Operators

Manufacturers Recorded Blassial to a Mit OCK design. Atil Mi. 284 'Haver' with reter mounted sight

Specifications (for Mi-28)

Dimensions Length: \$5 ft 3 in (1685 m) Rater disrector: 56 ft 5 in (17.2 ml) Height: 15 ft 5 in (4.87 m)

Freety: 15 432 th (2000 to) Max ERD: 25 353 In (11 500 kg) Warkegt: 4000 fb (1814 kg)

Armament

One 2842 30 mm nose-mounted rannon: 9M39 lots V SA-18 George) and 9A 2200 pir-te-pir

Mil Mi-34 (Russia) NATO reporting name 'Hermit'

Type: Light utility believeter Aerommodation: Two pilots, two passengers

Development/History Designed as a light utility, observation, training and fairne

belienster for military, notice, border quand and civil use, the Production become in 1993, but furnities earliest should defecties after six bad been half. In 1997 modurism resumed after a corporate restructurion.

Mi-More W2: Incomment union tired with VIT ein-

Operators

Panamos Ammengey Assistion Co (Bussia) and VAZ Motor Cor.



Specifications (for Mi-34)

Powernlant VASCR Medicaryoni M. 15V. 25 sin-rooted radial

Bright: 10 f t (3.2 ml)

Weights

Performance

Range: 224 nm (360 km)

Mil Mi-38 (Russia)

Type: Medium lift beliepoter

Accommodation: Two pilots, 32 passengers

Development / History

and beyond the prototore story because of lark of funding Development beyon back in the mid-1980s, and a middle (Bob) was resected for 1950, but did not occur. It bears

the value via class-shell man doors and a loading ramp Europogter are working igintly with Mil GKB and Kazon

Karon Helicopter Plant Cortantes) to Mil OKB (Bussia)

Variants

Operators Manufacturer

design.

Model of the proposed Mi-38 Powermlant

Specifications (for Mi-38)

Dimensions

Length: 64 ft 7.5 in (19.70 re) Height: 16 ft 10 in (5.13 m)

May 170- 31 999 In C14 509 kel

Performance Ouising speed: 155 resh (250 kmh) Armament

Mil Mi-40 (Bussia)

Type: Assault transport believater Accommodation: Two pilots, 10 troops

Development/History Intended as an arough transport winton of the Mi-26 arrows helicoptes, it shares many of the sestems of the Mi-28.

including engine transmission, main and tail moors. Variants:

Status Operators

Manufacturer

Assumed to be Mil ORB (Russia) design.



Specifications (for Mi-40) Progrenolant

Powers 4380 say (3206 880)

Length: 54 ft 5 in (16,60 m) Botor diameter; 56 ft 5 in (17.20 m) Height: 14 ft 5 in [4,40 m]

Empty: 16 920 th (2625 kg)

Mag T/O: 25 137th (11 402 kg) Paylead: 30 681 lb (1800 kg) Performance

Armament

Denel Aviation CSH-2 Rooivalk (South Africa)

Type: Attack beliconter Accommodation: Pilot fread, co-pilot/ounner [front]

Development/History South Africa's Boolyalk Blod Kestrell has its origins in an

defence cuts have not the order in doubt. Malazzia's new

Mariante

Manufacturer

XDM: Experimental Development Model CSH-2: Easie nead extinumental ADM: Advanced development model.

Status Operators (proposed) Malaysia formel. South Africa fair force).



Specifications (for CSH-2) Powerplant

Power: 4000 sha (2982 kW)

Weights

Warkend - 2022 In (1321 ke)

Max speed: 192 mph (309 kmh) Range: 507 nm (940 km); 720 nm (1335 km)

Armament

One 20 mm GA-1 Fattler cannon: ZI-3 Swift.





Denel Aviation Orvx (South Africa)

Tune: Transport Iteliconter Accommodation: Two pilots, 20 passenners

Development/History

conversions, but Board hose were further by multiples the tail section, plus hubblion in the provision for an extension array of nedsance. Previously known as Screetists.

Option 3: Ness-mounted free-flight model assument.

Ortion 7: Side-requested for-Hight socket burnleys Option 4: Anti-armour question

Status

Operators



the stablished evetom fitted to an Orex

Specifications (for Ovrx)

Powerplant Two Turbornica Makiki IA1 free turbines

Height: 56 ft 10.5 in (5.14 m) Weights

Max 1/0: n/a Paylend: no

Performance

Free-flight redicts: 8 or 16 ZT-3 Swift or ZT-35.

Westland Wasp (UK)

Type: Light general-purpose helicooter Accommodation: One pilot, three passengers

Development / History

being absord out of service by its last remaining users.

Variante Wasse BAS 1: Shiphorne version.

Status No begger in production. Operators

Infloresia Isawel, Malaesia Isawel, New Zealand Jair forcel. Manufacturer

Sounders-BardWestland Helicontes (IRC)

Westland Scout AH Mk I Specifications

Ow Rolls-Royce Bristol Nivolan 503 Iarboskuft Dimensions Length: 30 ft 4 in ft.2 ml Rotor diameter: 32 ft 3 in (9.8 m)

Height: 11 ft 8 in £16 ml Weights

Psyloge: 1500 ft (GEO by) Performance

Mag TAO: 5500 fb (2455 kg) Bonne: 263 per [488 fee]

Mk. 46 torpedoes; AS12 wire-quided missiles: Mk 44 depth charges

Westland Lynx (Army version) (IK)

Type: Light multi-purpose military belignater Accommodation: Pilot observer/gunner 10 trans-

Development/History

the British Array's primary light belicopter is another product marketism. Some 113 AH to some built for the British Army with skid landing over, but expert sales arrowd elusive. The Otton 15-work 200 nati-took mission A further 34 All 6 light hyddefield helicroster ywnion ware normand fann 1900

- AH 1: Original British Army utility version. Some countries
- All & Experimental venion All 6: Proposed Boyal Marines version, not renduced AH 7: British Array upgraded arraed belicopter BHILAGAN version with eight TOW reissile tabes. All % British Array Eght battlefield helicopter version with
- (1135 shall tripyric under corriage and BERF rotes blades Battlefield Ivea: Proposed count version with navision for Hellier or HOT anti-tank missies.

Battlefield 800: Proposed export service with URICC 1800 Mk.24/25: Proposed legal export versions. All 82: Princered Emertion current service.

Erroty: 6040 to (2740 kg)



Wortland I saw All Mt. O.

Specifications (for AH 1) Powernlant Power: 1800 sha (1142 KW)

Performance Orunies speed: 161 mah (255 kmh) Range: 340 nm 0530 kml

Armament 10W and lenguard 1000 wire mided anti-tank

missins: 12.7 mm or 20 mm door or nod.

Westland Lynx (Army version) (UK)

Mk 83: Proposed Saudi expert version. Mk 84: Proposed Chileri expert version Mk 85: Proposed LAE export version. Lyne ACIE Experimental advance compound belieopter with nings for

Status Na Interes in production

Operators UK (orre/rood.

Manufacturer Westland Helicopters (UR).



Westfand Lynx AH.Mk 7 (Tim Ripley) 74

Westland Lynx (Navy version) (UK)

Type: Light multi-numose naval beliconter

Development/History

Western destroy of the continue to a second for ad-Drine to the ST bounds by the British Broad Black more

then 200 have been sold for execut, with new codes 1991 Gulf Vice, After the Falklands, the Rayal Navy begon

Variante

with OMFRA, Senid ORR TIW radar and Alcatel Austino BAS 2: Original British Royal Navy venion, with Ferranti

Septancy natur. Bendix dispine sonor and Toxos Instruments. BAS 2005: Surviving Bellish version for Archic countriess

from HMS Endurance BAS 35: Specialist British version with surveillance and

BAS 3GM: Improved British versions for Gulf War with A10-

Accommodation: Pilot observer/ounner, 10 troops



Specifications (for HAS 2) Powerplant

Power: 1000 stur [1342 kW]

Height: It ft 6 in D.5 ml

Minetiand Luny Mt. 24

Weights

Personal: 2000 Ib 2007 Inch

Cruising speed: 161 moh (259 kmh)

Armament torpedoes: Mix 11 droth charges: Sea Sixa radar

guided anti-ship missile: AS12 wire-quided

Westland Lynx (Navy version) and

HAS 4 IPMS: Improved French New yorken with non-flow.

MR 21: Funget service for Brack strategated SAIL-11 Mk 21Mc Export version of Super Lyon to Board

Mk 23: Fanort version to Jenestina States sold to Book and

MR 25/UH-14A; Export utility version for Netherlands. MR 235h-14D Department for Netherlands with come

Mk 00: Fannet venice for December

MR 81/58-160: Femort sersion for Northestonsk with MAD Mk Bis: Export version for Naneau

Mk 07: Expert venion for Amentina. Mk 88: Export version for Germany.

Mk 90: Ennet venion for Depende

Roury Grey 42-1 copings, REEP rates blades, thermal inspains services and improved electronic warfare systems.





Above: Westland Lynx HAS Mk &/Super Lynx



HAS MY 2 IEM

Mk 95: Fannel Super-Long for Pertunal

MR 99: Expert Super Lynx for South Korea. SH-140: Expert version for Netherlands with up-rated fails. Royce Gern 42-1 coppines and full ASM bit. Super Lynx Series 200(300): Eupon version with LHTEC CESSON. Immoved valided

Status

In production

Operators

Malaysia (nany), Netherlands (nany), Neperia (nany), Nereny (nany), Pakistan (nany), Portugal (nany), South Korea (nany), UK (nany).

Manufacturer

Westland Helicopters/GKN Westland (UK).

Westland Lynx HAS Mit & Super Lynx (GKN Westland)

Kaman Seasprite (USA)

Type: Shipborne anti-submarine helicopter Accommodation: Two pilots, sonar operator, four passengers

Development/History

Making in first flight in 1959, the SH-27 version of the Size Spirit utility belonger was selected in 1970 by the US Myro far work on flights, decisiopes and emisciss in the unifsidencies risk, uniform the LAMPS is quarters. It list and to the SH-60 in the LAMPS is quarter, and the ball of the US ANALY files take been order reliquish to secree service or selected into strongs. A programme to appealed some surplus US versions to the service service of LHO strongs, and the insuffering, and the improved believing to his recently fissed outputs secree in Analysis and the Analysis and the property secrees in Analysis and the outputs secrees in Analysis and the Ana

Variants

III-28: Sulphome stilliy belicepter the US flavy. 511-28: Initial viewer of US flavy Light Advance Multi-Perpiese System (IMMPS) platform contest for enhanced small slap indicepter. Disorder lay two 150-76-7 flowerplant 51-28: Improved version with 30 lawyer file rotor blades, new sourch malar and tower MAD boxes. 51-28 Super Searantie: Advanced wireles next more fair 51-28 Super Searantie: Advanced wireles next more fair two

General Electric 1700-0E-401 turbushalfs, each rated to 1205 WI (1723 shall, it has improved missive sensors and recipies carriage capitalities. 58-20(8): Specialist anti-submarine warfare apprade for

Egypt. SH-26(A): Australian export version. SH-26(M): Peasand version for Malaysia.

Status Work continues on SH-2G standard apgrades.

Keman SH-2F of HSL-34
Specifications (for SH-2G)

Powerplant
Iwa General Beetric 1700
Power: 3446 sha (2670 k
Dimensions

Reter diameter; 44 ft 4 in (13 Height: 15 ft 2 in (4.6 m)

Weights Empty: 9200 lb (4173 kgl Max T/O: 13 500 lb (6124 kg) Performance

Max speed: 150 mph (256 kmh) Range: 478 mm (885 km) with external tanks

Armament

anti-ship ratioles; AGM-650/M/NZ. Maverick air-to-surface guided missile

Operators

Manufacturer





Bell Model 47 Sioux (USA)

Tune: Light beliegnter

Aerommodation: Two nilots, one passenger

Development/History

One of the first helicopters to an into large-scale production function proving by most NASO upon it can still be found in

II-13 Sings: Basic US Anny and USAF venion. THE CORDS AND ADDRESS OF THE REAL PROPERTY AND ADDRESS HIR - UCD: US New service for training and ice broking ship

OH-11: Decessor serion IIII-13: US Navy training version

Status

Operators Columbia, Congo [Zaire], Greece Jair Force], Italy farmyl,

Bell Alexaft Consocition/Bell Helicopter Company (USA). Agusta Otaly), Westland Helicopters EUKI, Kanasaki Heavy



Bell 47G operated by the British Army as the AH.1 Sloux

Specifications (for Model 47G-3B-2A) Weights

Power: 200 by [203 135] Max 180: 2550 th (1333 kg)

Legath: 31 ft 7 in f9.6 ml Range; 215 nm (397 km)

Bell Model 204/UH-1 Iroquois (Huev) (USA)

Type: Light utility beliconter Accommodation: Two pilots seven passenners Development/History The first of the famous 'Harv' family of belicosters which bose the boast of the US Anna campaign in Victoria, Several

Variants HIL-1A: Initial academies version for US deep with Capacity of six assertory. Source of Theey nicknown. HU-18: Exhanced sersion with capacity for seven passengers

IBILIA: Bodesignation in 1962 of HILLA IIH-18: Re-designation in 1962 of HU-18. IBI-1C: Improved version of IBI-18, with TS2-L-11

UH-1E: US Marine Corps version with hoist and twin 7.62

IBL-IE- ISAE ballistic missie sits security vesion with

TH-1E: Trainer version of UH-1E. HH+1K: US Navy rescue version with hoist and T53-L-13 Powerplant, rated to 1044 kW (1400 shu)

IRIA II - IIS Reportable person with ISSA - 13 reportable IBH-1M: IIS Army service with eight vision sensor fit. AR 204: Italian-built version, with powerplant options including T53-GE-3, rated at 962 kW (1290 sho), Textore



Specifications (UH-1C)

Powerplant

Max 180: 9500 is (4000 ke) Payload: 1361 B (2000 kg)

Armament



932 kW (1250 styl). Map 3B: Swedish designation of AU 204

AB 204AS: Italian-bulk noval version, with TS3-GE-3 proception, rated at 502 kW (1250 shp) Fuji-Bell 204B-2: Inpureir-bulk version, also known as Hiyodon. Macy float IIII-1C with un-strat resions.

Status No longer in production

Operators

Antria, Columbia (sir force), Hondara, Indonesia Jamul, Haly Jamul, Japan Garnyl, Parama, Parayusy, Sonsila, Sauti Korea (armyl, Spain, Sanden Jamyl, Thailand Garnyl, Jurkey (armyl moyl, Yessen,

Manufacturer

Manuracturer Bell Ancraft Company/Bell Helicopter Company (USA), Agusta (Italy), Fuji-Bell (Agust).

The Swedish army operates the AB 204 as the Hkp 3B (Josemy Flock/AP)

Bell Model 205/UH-1 Iroquois (Huev) (USA)

Type: Medium-lift believeter Accommodation: Two pilots, 12 passengers, six stretchers

Development/History

capacity. The first of 2500 ordered for the US arrend forces manufaced or mountly or titible it is not to continue in HS military sension until mell into the ment content

IBH+1D: Original US Arrey version, with Lycomica T63-L-11 powerplant, rated to 820 kW (1100 shpl. Capable of carrying 12-14 passengers. IRM-TH: Unrobed services for US desire ascreted with EST-1-17

BH-DY US Jone medicar and resour version with hole. CBB-IH: Casadian training veniors designated CH-118.

EH-1H: Electronic worfare 'Quick for' version.

Hury 800: Commercial unacaded westers with DHTFC D200 UH-1/1700 Ultra Huey: Commercial upgraded version with

General Electric 1700-GE-701C powerplant, rated to 1400 kW BH-18: brores-built senior

AB 205A-1: Iversed Bullen 204A.

AB 2058G: Prototype Italian version with two George H



Specifications (for IIH-1H) Powernlant

Performance

Leneth: 41 ft 9 in (17.6 ml) Melaht: 14 ft 5 in [4.4 m]

Bell Model 205/UH-1 Iroquois (Huev) IISAI



If amount at

1200 poserplants. AB 206TA: Protetype Turbonéea Astacous poserplants. HE 108: Spanish designation for AB 205. Abcornel 206B: Procoved Jacober unavoir.

Status

Operators
Argentian Introphasyskin forcel, Australia Janungi, Bahrain,
Eanglaichia, Edikia, Bisuka-Henesysvika, Bagdi Diri Farcel, Branci,
Canada, Olike Introphia forcel, Odiaminia Jair Forcel, Dualia,
Dominicon Republic, Bakuli, Shishiaku, Germany Lamadain fascel,

Overe Lamplai Servi, Staterouta, Hendeura, belorenia Jarrel, Loss Darre, Lowa Servi, Mari Larrel, Descio, Lipan Lampi, Jarrel, Device Servi, Mari Larrel, Device, Lampi Lampi, Servica, Westero Law, Liwer, Livere, Liver, Liver,

Urugusy (air force), Venezuela (army)air force), Zambia, Zimbahue.

Manufacturer
Bell Helicopter Company/Bell Helicopters Texton (USA), Agusta
(Italió, ADC Chinash, Bornier Hiermann), Full-Bell (Basan)

Bell UH-1H of US Army Reserve (Tim Ripley)

Bell Model 212 UH-1N Iroquois (Twin Huev) (USA)

Tune: Medium-lift believeter Accommodation: Two pilots, 14 passengers

Development/History

Pratt it Whitney Canada and the Canadian Government in Marine Corne Topolog roles followed in James number: with

URI-1N: Basic US Navy and Marine Corps version. CHILDS Carefor series loss defected Cit. VM Tale

All 212: Italian-built still to version, with Post in Whitney

184-19 (48M): Free-blade LSMC approved version

Operators

Cormelair force), Januaica, Japan farmyl, Lebanov, Malta, Mexico Sair Street, Morecco, Oman, Panuma. Peru (sin force).



Specifications (UH-1N) Powerplant

Two Posts & Military Canada PSSL-28 Judge Power: 1800 shp (1342 kW)

Height: 14 ft 10 in [4.53 m]

Payload: 5000 lb (2268 kg)

Performance

Bell Model 212 UH-1N Iroquois (Twin Huev) 11541



Philippines, Soudi Anabio (air force), Singapper, Silverina, South Korce (air force), Spain Launy, Lavin, Kir Somalia, Sudan, Thukurd (air force), Suny), Laniya, Turkey Lirmy), Uganda, Uruguau fair force), Venezuela (navy), Norce, Zambio, UME (bubui), UK (army), USA (navy)marines). Bell Helicopter CompanyBell Helicopters Textron USA/Canadal, Agusta (Haly) (Tim Ripley)

Bell Model 214 (USA)

Type: Medium utility and transport beliconter Development/History

wars of the Shalf's regime. Sales have followed to a number

Wariants 2144 highest trains-funded feedsmooth assessed to Testima Lympina 196880 exted to 1970 she (2050 kW) 214ST: Twin-created venion, powered by CT7-2As, with

Status

234B BioLifter Civilian venion 214C: Search and rescue sersion.

Operators Branci Columbia (air force), Ecuador, Iran (armyfranys)air

Bell Helicopter Company/Bell Helicopters Textura (USA).

Arrammodation: two nilots, 16 nassenners



Ball 214 Specifications (for 214ST)

Powerplant

Dimensions Length: 410 3.5 in (15.02 m) Height: 15f t 19.5 in (4.84 m)

Wrights Empty: 9445 Ib (4284 No) Paylead: 7700 lb (3403 kg)

Performance

Bell Model 412 (USA)

Type: Medium utility and transport helicopter

Development/History
The most recent version of the 'Mary' still manages to find customers around the world. A number of companies are also

offering upgrade packages to basic versions.

Variants 412: Baric production venion. 412SP: Special Performance venion, with improved fuel

4128F: Special Perhamsines version, with interiord that capacity, insure as Asspalio in Narvegian service. 4128F: Emergency medical services cersion, with improved transmission and PRIF-DRE Twin Pro. Millerum 412 Annual services.

Military 412: Arred version. 412EP: Enhanced performance version with additional fuel Designated Griffin III 1 in UK service. CH-146 Griffins; Canadian military version of 412SP.

NBell-412: Inforesion-built version AB412 Griffere: Italian-built military version. Designa EM-4: in Italian service. AB412 CHESO: Italian-built ground varyellinere salar.

platform. Hkp 11: Swedish designation. AB 412 EP: Agusta-built venion.

Status

93

Operators

Rahvain, Betwaren, Canada, Columbia (air force), Gasteenala,
Guyana, Fintand (coast guarel), Handasse, Indonesia Georgi,
Baly Jarney/sawylair force), Leostro, Wetherlands (air force),

Accommodation: two pilots, 14 passengers



Specifications (for 412HP)

One Profit Whitney Canada PEGF-3D-1 Turbo Twin Pic Proces: 1800 shu [1242 kW]

Dimensions Length: 42 ft 4 in (12.02 m) Rator diameter: 46 ft (14.02 m) Height: 15 ft (4.57 m) Weights Empty: 6654 to (2010 kg) Max 1/0: 11 000 to (5207 kg)

Performance Crubing speed: 140 mph (220 km² Ronge: 402 mm (745 km)

Door-mounted machine guns: comon por rocket pods; Air-to-air and air-to-surface movies Norway, Peru Jair Rocci, Pola Jair Bocci, South Arabia Jair Forcel, Siesenia, South Korca Jair Bocci, Sri Lavka, Sadan, Sweden Jampi, Thukand Jair Tourcharnel, Ulauria, UM

Manufacturer

Bell Helicopters Texton RSAlCarackil, Agusta Bal (IPE Battarcia)

Bell 412 of Dubai Police Air Wing (Tim Bipley)



Bell Model 206 JetRanger (USA)

Type: Light beliconter Arronmodation: Two pilots: three passengers

Development/History The heat coding betterner fact there is 1887 and there were

later number of arrest forces around the world. Some 7200

had been built by 1995.

Model 2008 Adhance It Second ready for senior with Model 2048-2 JetRanger III: Improved version with 25th-

Model 2061 - 1 LeonBanner: Spetched faselane version of

Model 2061-2 LongRanger B: Improved L-1, with Allison Model 2064 - 4 LonoRanner M: Canadian-built version Model 20641 TwinRanger: Consdian-built twin-regired

Model 2001 TexasRonger: Proposed military version of 1-2.

181-674 SeaBarmer: US Black training presion to 2004.



Specifications (206B-3 JetRanger III)

Powerplant Wrights ther Alligan 250-(20) turbodoft

Height: 9 ft 6 in 12.9 ml

Max 170: 2200 to (145) kall Payland: Under-slung 1500 lb (680 kg)

Performance



THASTR Scatterner: US New territors service to 2008 TH-57C Scaffanger: US Navy training service to let Ranger AR 206A-1: Italian-produced military version to 206A ARXIII.A.2: Italian england military version to 2008.

AB206C-1: Italian-modified A-1s uperaded to A-2 standard with -C20 croines. Hitp 6A: Swedish designation of Italian-produced 200A.

HIL12A: Sponish designation of AB 206A-1. Zufar 300r transconventured version of 2003-1 Status

Querators

Janualnovel, Columbia fair forcel, Donus, Orostia. Equatoriair force), Greece (armylair force), Gustenula,

Ismanio, Igioum Isir force), Thailand James, Turkey (growd, Ugarda, UARIDatoli, USA Jannelnova), United Nations.

Bell 206L-4 LongRanger 4

Manufacturer Bell Heliconter Company/Bell

Awasta Blabyl, Cordoon Industries

Bell Model 206/OH-58 Kiowa (USA)

Type: Light observation and utility helicopter Accommodation: Pilot, en-nilot side-by-

Development/History
The US Army bought some 2000 versions of the 0H-54

The US Army brought some 2000 versions of the OH-58 Kinna from 1909 onwards to fly scoat missions with specialist equipment fitted. The basic design has since undersome a mamber of unquarks to columns its battlefield.

Variants

OR-SBA: Original US Army scout version.
OR-SBB: Export version for Augustan Army.
OR-SBC: Unersided US Army version with flat plans various.

COH-SSA: Canadan version to OH-SSA standard, later redesignated OH-136 Kirava. Model 2008-1 Kirava: Australian produced version, later

Status No longer in grodu

Operators
Assiria, Assiriaka (anenyisawy), Casada, USA (aneny).

Manufacturer
Bdl Helicoster Componsited Indicasters Sestion (USA).

Accommodation: Pilot, co-pilot side-by-side, three passengers



Specifications (for OH-58A)

Powerplant W One Allicon 163-A-200 turboshaft for Power: 317 stor (236.5 std) M

regific 32 ft 3,5i n (9,84 m) otor diameter: 35 ft 4 in (10,77 s right: 9 ft 6.5 in (2,91 m) Weights

Max IJO: 3000 to (1361 log)
Performance

Range: 200 nm (481 km)

Bell Model 406/OH-58D Kiowa Warrior (USA)

Type: Light anned reconnaissance belicopter

Development/History

Development/History
The 'history' recises of the Cet-52, the Kiówa Warrier
tousts an impressive secapes and sensor fit to allow it to
operate absoptice the All-64 Apache as part of joint air
attack teams. The Army Hickopter Imperocurers Traques
(MIPI Inseat in 1881), and the first helicotates centred.

Variants

Variants OH-S&D Kiowa Warrier: US Array armed Scoot version. Multi-Purpose Light Belicapter: US Array modification

Priese Chance: Code-name for first aircraft fitted with Hoffire and Stinger missiles for shipping escent duties in Middle East in 1907. ABI-L980/4002 Combut Senat-Small Land France services.

mounted sight. OH-SBX: Stealth technology demonstrator.

Status

Operators South Anthia Germel, Taiwan Germel, USA Germel

Manufacturer Bell Helicopters Textron (USA). Accommodation: Two pilots side-by-side



Specifications

Powerplant One Allison 1703-# Power: 650 shp [41

Dimensions Length: 34 ft 4 in (10.5 m) Rater diameter: 35 ft (10.7 m) Height: 12 ft 10 in (1.9 m)

Weights Empty: 3046 lb (1381 kg) - Min

(Ball Helicopter Textron)

Warked: 2000 lb (507 kg)

Performance

May specif: 147 mgh (227 km/s)

Max specif: 147 mph (237 km) Range: 250 nm (463 km) Armament

Stinger air-to-air missiles; AGM-114 Hellfise laser-guided anti-tank missiles; machine qua pols; free-flight nocket pods

Bell Model 209/AH-1F/G Huey Cobra (USA)

Development/History

In 1936 in a primore vention the direct for traction scaling and more traction leaves there expectly a legislate belongster designed in sense file would some 1900 General to sense the world some 1900 General to sense designed by the 15 Sava and 11 promoting verification when the contraction of the 1900 General to sense the sense designed by the 15 Sava and 15 promoting verification should be recently to contact measured Social tractioned film resistance districts as the recently to the 1900 Venture of the 1900 General traction of 1900 General traction of 1900 General tractions of 1900 General tractions of 1900 General Contraction of



Variants

TH-16: Dail control trainer version.

AH-IE: Unbaseed Cobra armament version with TUV/
missiles.

AH-IP: TOW missile armed version.

AH-IO: Unstanted version to allow 100/ missile cassions.

AH-IB: Upgraded senion with 153-L-203 powerplans. Improved AH-IS: US Army common upgraded standard for Its GIQ models, with TS3-L-203 powerplant.

Weights Empty: 6598 lb (2500 kg)

Procerolant

US Army AN-1G
Specifications (for AH-1F)

Max T/O: 10 000 to (4536 kg)

Performance Cruising speed: 141 raph (227 kmb) Bunge: 274 ner (507 km)

Armament
Four hand points; eight TOW wire-quided antitank missiles; free -flight nethers; M197 20 mm cannon in most barret; 30 mm grenade baarch

Bell Model 209/AH-1F/G Huev Cobra HEAL

AH-11: Re-designation and upgrade of US Army SPTPS model Cubras, features that cockpit glass, ease IOV sight and ISS-1-200 powerplant. Cament in-service weeker. Advanced AH-1a/Model 200 Eron Cobras Favorinestal

Status

No longer in production Operators

Bahrain, Israel, Japan Janes Jordan, Pakistan Lennyl, So Koren Lennyl, Thailand Jane Ludov, James I, Hostor Note

Manufacturer Bell Helicopter Companylikel Helicopters Textson IUSAL for Bell (Insert)

Right: AH-1G Huey Cobra of the Maryland National

uard memy Flack/AP0



Bell Model 209/AH-1W Super Cobra (USA)

Type: Attack heliconter Accommodation: Pilot counied number in tandem

Development/History US Marine Corps requirements for a twin-engined receivings.

Variants

Whish's version II saw action during the 1990 fluid War. chambes hundreds of kills on Issai tanks with its laver-quided

4H-11 Sea Coher: US Marine Corre version with two Proft II Whitney County 1400-CP-400 turingly-fits rated to 1142 VM (1800 shall each.

All-11 International: Expert service of All-11. AH-1T Improved Sea Cobra: Upgraded AH-11 for US Marines Alls IW Samer Colonic Basic US Marine Coms version with

improved 1700-GF-401 powerslants, each rated at 1586-KW 11723 shot. Cobra Venors: Proposed UK veniors. AH-1W [48W]: Proposed appeads for US Marine Corps. providing four main notor blades and weapon waters

AH-180: Remarks amount vestors with customised Model 309 Kins Cobra: Experimental gastrate with two

engines and improved weapons system.



Specifications (AH-1W) Powernlant two General Electric DXB-QE-460 turbockafts

Weights Empty: 10 200 lb (4027 kg) Max 330: 14 750 ft 80680 kgl Workenst- 4552 th (2005 hel)

Performance

Armament

turner: four hand points: 1000 wire-puided antitank missiles: Hellfire later suided anti-tank minites: AIM-56. Sidewinder air-to-air missiles: gun pods; cluster bombs; free-flight recket pods

Bell Model 209/AH-1W Super Cobra (USA)

Status

In production.

Operators

USA (marines), Thailand Jamy), Tarkey Jamy) ... Manufactures

Manufacturer Bell Helicopter Company(Bell Helicopters Textron (LSA), UR



Bell AH-1W Cobra (Bell Helicopter Textron)

Bell/Boeing V-22 Osprey (USA)

Type: Tilt-rotor transport Accommodation: Two pilots, crew chief; 24 troops

Development/History This resolutionare already has once through a profess

with the first countries being addressed in 1989. The Chapter with 5 states 5 states 5 states 6 states from the countries and provide the paper for lecturality, and they the coulder is provide the paper for lecturated by the 55 States on subject into CH-46 search belongstore, the first with 65-26 his byttem of CH-46 search belongstore, the first with 65-26 his byttem of CH-46 search belongstore, the first with 65-26 his byttem of CH-46 search belongstore, the first with 65-26 his countries of 66-26 h

V-22 EMID: Engineering and manufacturing development sheraft. MV-22R: US Marine Corps assault production venion.

CV-22B: USAF special operations production version, 89-22B: US Navy combat search and rescue production version. Bid-Basins 60H: Challes resource: http://doi.org/10.108/

built to a smaller scale.
Status

Variants

tion.



Specifications (V-22B)
Powerplant
Inc Allice 1406-AD-400 turbeshafts.
Power 12 380 sks 19172 MM

Dimensions Length: 57 ft 4 in (17,5 m) Reter diameter: 30 ft (11,6 i Height: 17 ft 4 in (5,28 m)

> Weights Empty: 31 886 ib (14 463 kg) Max I/O: 55 039 ib (24 947 k

Payload: 20 000 to (9072 kg)

Performance
Max speed: 115 mph (115 kmh) in helicopte
mole; 316 mph (509 kmh) in fixed wing mo
Rampe: 1200 mm (2224 km)

Range: 1200 nm (2224 km)

Armament

may be adapted to carry torpodoes and depth charges Operators

Manufacturer Bell Helicopters Test Bacing Helicopters B



Bell Booing V-22 Oaprey (Bell Booing)

Boeing CH-47 Chinook (USA)

Development/History

The freight? Obtased desir flow in 16th on 16th on 15th on 16th on 16t

Barray St. 1931 God Tiva CH-Lift, Sulperi a lav y rail.

When pleash bod pills in the pain operated the year for 105 period petition by a fine pleash bod pills and position position control to the present propriet or control forces in 1938 by silling promises to they extend see position position around the San Bern, see that the propriet of the propriet in 1938 by silling propriet in 1938 by

recruition of its citizens from Albania during the 1997 civil



Specifications (for CH-47D)

Powerplant Inv Textron Lycoming Power: 6000 sky (4474

Dimensions Length: 51 ft (15.5 m) Bater diameter: 60 ft (18.3 m) each Height: 18 ft 11 in (5.8 m) (Ties Rips

Weights Empty: 26 918 to (12 210 kg) Max T/O; 54 000 to (24 454 t

Performance Max speed: 177 mph (285 km/s) Range: 613 nm (1126 km)

Armament Door ruching gar its air mobile below to the Metherbook has exhaud Phiesele to provide mobility for its new rapid practices force. The US night vision draiges and in-flight refurlling equipment ninks Britain's Royal Air Force is also procuring a sension

paping Sitorda's Sea Stallion with more than 1007 hailt, or

ordered, for the US Arms and popert by 1997. Variants

CII-478: Uniqued US army version with TSS-2C tratestrafts

CHL470: US derry version with TVL-L-712 habsolivity for

handling of under-vises loads.

CH-147: Circular venion to CH-47C standard

Chianal HC 18: Billish version retrofitted with place fiber

Mades. Chiesesk HC 2: British version to CH-47D standard.

ing CH-47D

Boeing CH-47 Chinook ages

Chinark SE 3: British service to MIL-OT standard MH-470 Special Operations aigmost: Interior appoints for MM_47F- Sweigl forces service with in in-flight refuelling.

International Chinack: Expert model to CIL-620 strandard powerplants and composite hisdes.

OR-473: Japanese-built venion to OH-670 standard.

ICH CH-47D: Improved Cargo helicoater upgrade for US from possibly to be designated CILASE Advanced Chinnels: Proposed version with 5000 stur (1779)

(W) class engines, exterioned rators and additional fuel Status

Operators

Marocco, Netherlands, Singapore, South Kerea Jannal, Spain tarred Taiwan, Thuiland Gerryd, UK (air feece), USA (arred)

Manufacturer

Vertal Aircraft Corporation/Borion Vertal/Borion Helicontes Meridioro&Mousta BlainL



Boring CH-47 HC Mt 2

Boeing CH-47 Chinook (USA)



Boeing CH-47 HC.Mk 2

Boeing 107/CH-46 Sea Knight (USA)

Type: Medium-lift beliconter Accommodation: Two pilots, crew chief, 25 troops

Development/History

flight in 1953 and entered source with the US Marine Comin 1964. Mickenmed the 'Franc' it was extensive sension as no reventions in Persons, the Person Gulf. Specific Liberta and upwade programme kept the aircraft flying through the Ospery tilt rotor. Delays in the V-22 passagement record the Freq' will have to soldier on into the 21st centure. US New flect support squadrons are large users of the

Ot-96, corruting from share bases or supply ships, foreign copleits of the aircraft was its our by the Swedish New to hant Soviet submorines in the Bable Sea during the 1980s.

Variants 107 Madel II: Cuition sersion HRB-1/CH-46A: Original US Marine Corps assault version

with two 150-GE-LE powerstasts, each specific 912 MV URI-46A: US Neve utlifty and caree tramport version. CH-46D: Haused US Marine Corps version with ISB-62-10

UH-46D: Utrated US Novements with EST-GE-to



Specifications (for CH-46E)

Powermlant

Performance Legatic 44 ft 10 in [13.7 m) Botor diameter: 51 ft (15.5 m) each

Engte: 12 007 It (5027 to)

Boeing 107/CH-46 Sea Knight ausai



HILASTI I E Marine Corm recor version. CH-465: Fired production version for IIS Marine Corps, with CH-46F: Blogrady D- and F-models for US Marine Corps.

includes plans fibre rotor blades, improved avionics and \$50-VH-46F; VP sension for US Marine Corps. DC-102 T/TA: because-built utility version curarted to

Him 4: Swedish designation for KV-107. OI-113 Labradon: Canadian search and resour version. CH-113A Venagour: Constian army version.

Manufacturer Wytel Ascust Corporation/Secing VertoffSeeing Helicosters RISAL Kasunaki Herry Industries Dapard.

Operators

Canada, Jopan formy/novylair forcel, Sweden Inaval, Soudi

Boeing/Sikorsky RAH-66 Comanche (USA)

Type: Recognoissance fottack believeter

Development/History The IPC Arrain graph treatiled sout believater treducement

programme has received visualizant funding that as yet their first protesture theirs in 1606. Decolumn town contracted to sample six six roll for testing to the US James by 2002 updet a \$1,699 billion contract. The second viscosit

The Comments: has a parenter of unique features includion a bearingless main rotor and stroughed tail rotor. It is the first Belicopter to be developed using 'straith' technology to

Manufacturer

Boring Heliconten and Skordy Alexada BNA)

Accommodation: two pilots in tandem



Boolma Silvarahy BAM-66 Companie

Specifications (for RAH-66)

Power: 2688 shp (2004 196) Dimensions Length: 43 ft 4 in ft 32 oct. Reight: 11 ft 1 in (3.4 m)

Weinhts

Warload: 2612 to (1185 to) Performance

Max 100: 10 112 to 16582 to 1

Under development

Boeing/Sikorsky RAH-66 Comanche (USA)



Beeing Sixorsky RAN-66 Cemanca

Boeing OH-6 Cayuse/MD500/MD530 (USA)

Type: Light utility beliepoter

Accummodation: One or two pilots, four passengers

Development / History

arrainment in the early 1980s. Soon nicknamed the Yearl' and later McDonnell Douglas, how continued to develop and approach the basic design, with more than 4660 having bring

built by 1997

Variants Model 255/2000 Oyane Francisco of 500 series which lacks revised year fairlage. Military servines designated D.L.

OH-GA (Model 309M) Cayener Dricknal US Army light OH-GB: Re-engised version with 163-A-720 powerplast. DH-60: Proceed five-bladed version with improved Allicen

25-C20 rensing, rated at 238 KW \$400 shot. Commercial derivatives designated Model 500D and E. Oll-61: Improve-built senior to 001-63 streets at MH-GB: Special forces version

MH-GC: Special faces venion FR-4R Service forces command notificientes in worker

AH-BC: Special forces attack version. Hughes 500: Civil version of the OH-6A/Model 362 with Allison 250-C18A tarboshuft, rated to 236.5 kW (317 she). Model 500C: Export version modified for 'bot-and-high' operation.



Specifications (for Model 500E) Powermlant Payload: (530F) 2000 Ib (507 av)

Rooten MD500 in Israeli service

Levelle 23 ft (7.01 m) Rotor diameter: 26 ft 5 in (8.05 m)

Weights Empty: 1445 Ib (655 to)

Max 170: 2000 ft (1361 kg)

Performance

Armament

KW wire-mained anti-turk privates: Steam six-



Model S00M Defender Connectial session of GH-6A. OH-GD: bean built syrsion based on un-engined Hapter 500. See-blacked main rotor and I-tail.

NHSOOM: Italian-built version based on va-entired Hoshes Model S00M(NSW: Export version for Spain with MAD

Model S00MD Befender Military version with armour and Model 5000 Seout Defender: Armed reconnaissance version. Model SCOMBIASW Defender: Maritime version with search radar and MAD beam Model S00MB(TOW Defender: Anti-tank missiir armed

Made contributes, 1000 belowice decistors missle

Model S00MD Daiet Advanced Sexual Defender: Four-Model 500MD Defender II: Anned version with quiet slow

An Ott-6 of the Canish army (APII)

Boeing OH-6 Cayuse/MD500/MD530 again

Model 500E: Bryand version with pointed rose, improved tallplane and Allison 25-C208 powerplant. NM-500E: Italian-built version of 500E.

Model S00MG Defender: Specialist military version of Model 500E.

Model S20MK Black Time: Europa, built military version

roce, powered by Allison 250-C90 turboshaft, noted to 317 187 (425 shp). EH-GE: Special forces command postidectronic worker

NH-6E: Special Strees version with Allison 25.0-C30 powerplant.
AH-6E: Special Specs attach wryton Allison 25.0-C30

powerplant, MDS30MG Defender: Writary version with Alison 250-C30

MDS30 Hightfast Hight attack version with improved scates and powerplant.

MDS36MD Paramillary Defender: Specialist version powerplant for police and border potent.

MDS36H LibraryM-6HF. Special bases sension to MDS34 popularity AF-6HF. Special bases sension to MDS34 popularity

MH-GJ: Special forces version with improvements to MH-GH. AH-GR: Special forces attack similar to MH-GH standard.



Boeing OH-6 Cavuse/MD500/MD530 IUSAI

Status

Operators OHE

OH 64 Cavuse

Harber Tool Commonthurber Helicoster InchleDonnell Dounties Helicoster Consarú/Rocino

force), Kenno, Mauritania, Mexico fair M0530 Chile January Columbia, Mexico foir Manufacturers

Boeing MD 520N/Explorer (USA) Tune: Light utility believater Accommendation: One or two pilots six passenners

Development/History

The NOTAR is a revolutionary tail-extenses believes as

convert which has been under development since 1981 Au set it has not been officially adopted by a military user although IIS Agrey special forces are understood to how used MOSAE semions

OH-GA NOTAR: Experimental version first rury NOTAR

MDS200: Experimental venion with SQLAB entories tail. five-bladed main rotor and Alikon 250-C206-2 turbushaft. MD Explorer Turn-regimed NOTAR services MAX services

colled Combat Dallace. MD000N: Wide-body signife-england NOTAR serving

MD900: Fight-reat region of Evolution MH-676/MH-676: Suspected US special forces NOTAR versions.

In production. Operators

Manufacturer

Hapter Helicopter Inchlettonnell Dountes Helicopter Company/Booling Helicopters (USA)

The resolutionses Rosing Combat Evolute is reported to be in randce with the US Army Special Forces.

Specifications (for MD Explorer) Powerplant Two Fratt B Wibiney Canada PW 20128

Power; 1258 sho (508 kW) Dimensions Leggth: 32 ft 4 is (9.86 as)

Height: 12 ft (3.66 m)

Performance

Max speed: 172 mon (228 kmin) Range; 374 rm (902 km)

Armament AGM-TIA Hellifer beer quicked part, track missiles; reachine gan pods; free-flight socket



Boeing AH-64 Apache (USA)

Development/History

And the Controlled controlled control of the Control in Sentime.

3000 for adiabated bits belongers, self-frequency and Budget Belongers and Budget Belongers are budgets and the latest controlled co

The ART-644 showed its potential during NAID Ref coper exercises sharing the late 1965s, but it was not ward the 1968 It's operation to soire Parama that the Apache first saw action.

In the 1993 Fault War the Anache showed its fall accretial



Specifications (for AH-64A)

Sul Powerplant
Y Two General (lect

Dimensions tength: 51 ft (15.5 m) Bater diameter: 48 ft (14.6 Height: 12.0 7 in D.6 m)

Empty: 11 225 to (5056) Max 130: 21 000 fs (562 Warlood: r/a

Range: 260 nv (402 k)

Armament Our 30 mm M220 Ou

One 30 mm M220 Chain Gur; AGM-114 Helli borr and millimeter radar guided anti-tank missiles; Missul, Stinger or Stansocal/Heliatre air-to-air missiles; free-flight sockers

Boeing AH-64 Apache (USA)



Bosing AH-64A Apa

Roeing AH-64 Anache agas

The intimidating presence of low-Dying Apache helicopter in Bouria from 1236 onwards was considered by US Army commanders to be instrumental in the success of their

The US-New a significant in death for the promotions the Leighter efficiency and refer each frequency guided union of the Hoffiter entity, which effectively, subdict where on the Leighter entity, which effectively, about the very larger entity of the leight at the leight of the leight of the leighter entity of the leighter entitle entity of the leighter entitle entity of the cond-resorted entity or entity of the leighter entitle entity of leighter entitle entity of leighter entitle entity of leighter entitle entity of leighter entitle entit entitle entitle entitle entitle entitle entitle entitle entite entitle entitle entitle entitle entitle entite entite entite entite entitle entitle entitle entitle entitle entitle entitle entit entitle entitle entitle entitle entitle entitle entitle entite entitle entitle entite ent

Variants

116

YAH-64/Blaghes Medel 77: Experimental version, AH-64A: basic US Army version. AH-64B(D: Proposed PAH version for German arms AH-64D Longhour: Improved millimetric rodar equiversion.

WWH-64D: UK-built longbow version with Bulls-Rayce/Furborico RTM322 englies: AH-64C: US Army versions approach to allow installation of Longbow radar. New to be dissignated D-models.



Beeing AH-64D Longbow Apachs

Petan (Cobral: Israeli numo. Sea Apache: Proposed saval

Status

Onerators

(Shar Drobi), UK Dome), USA

Manufacturers

Mrkrophyr Company Borina Helicopter IUC.



Reging AH-SAD

Sikorsky S-58 Choctaw/Wessex (USA)

Type: Medium-lift beliennter Accommodation: Two pilots optional crew chief, 16 troops

Development/History

contened service in the 1967s. The British-hull service the Sikorday simple pictors-regimed direion by installing simpleand then twin-turbostofts. Uses are now withdrawing them

Variants (still in service) Wissey HC 2: BAF utility and instrumyersion. Also newsted

HH-34D: Topygod vyrsion. S-SIT: hein-turboykaft critise-powered service

Status

Operators Apprehim bir fosori, UK bir fosori, Unususy (rosy), Laos.

Manufacturers

Specifications (for Wessex HC 2)

Westland Wassey HC Mb 5 Two Bristol Siddeley Grome Mk. 190/111 Dimensions

Legath: 48.ft 4 in (14.7 m) Legath: 55 ft 10 in [17 m] Botor diameter: 62 ft (18.9 m) Height: 16 ft 10 in (5.1 m)

Empty: 8304 to (3767 kg) Performance

Type: Medium-lift/naval belicooter Accommodation: Two pilots, (SH-3) two sonar operators, 26 troops

Development /History

Stoors Navy during the 1960s. The SH-3 report a year report maritime believeter and NATO savies outered it is been Westland Helicorters in Britain beaut to develop its mon coefficient until the mid-1990s with more than 200 being

Variants

YINGS 2: Posteriore servines HSS-2/SH-3A: Original US Navy production version for antisubmorine worker MSMI removed by LSB-BL-BL sonor and capable of carrying targetors or nariesr death

CH-3A/E: Utility version without ASW equipment for US HH-3A: IS have contact search and recoveragion

BH-3A-US Navy raine-operation version. SN-3D: Impressed US Navy ASW version with TSN-GE-10

WH-3D: US Marine Corps version for Presidential transport



Specifications (for SH-3H Sea King) Powernlant Parking: 8000 lb (3630 kg)

Emarks: 11 885 lb (5382 kg)

Sikoraky S-JG

Performance Bannet 542 on (2005 loc)

It dreth rhances; Mk 57 and Lalu ruclear

Mit 2 setilishin missibo (IAUL 7 7 67 mm Miss

with 15th-GE-10 powerplant. SH-3G: US Navy improvement of D-model with extra cargo

SH-3G: US Navy improvement of and passenger carrying capacity

SH-3H: US Navy improvement of D-model with in mission systems for ASW work.

URI-SR: US Navy utility venion without ASW mission equipment.

SH-30-TS: ASW session. SH-3H AEW: Scorish may airhorne early sorning version.

SH-3H ADW: Sporeth mavy actionne early sourning w with Searchwater radia. S-610: Deport syrvion for Bronzark to SH-3A stands.

lenows as Nazis. S-610-3: Brazilian export version to SH-30 standard, later

upgraded to SH-3H standard. S-61D-4: Argentinean export sension to SH-3D standard.

Italian-built versions
#SIL-III Nasal version with TVE-GE-100 engines ared to

1125 kW (1500 shp), ASW mission equipment and equipped to the Execut and Marte Mr. 2 anti-ship mission. ASH-3H: 5SV version with improved mission equipment. AS-61-TS: VIP transport version, designated ASH3DVS.

Canadian-built versions CHSS-2/CH-124A: ASW version to SH-3D standard.

CR-124B/C: Upgraded venion with improved mission system.



Sikorsky SH-3G





Westland Sea King HC.Mk 4 'Junglie'

Sikorsky S-61/SH-3 Sea Kind again

Japanese-built versions

British-built versions

Sea Kinn HAS 1: ASIV version with Bolls Bowe Geome HT400 turboskofts exted to 1050 kW (1400 shall Sea King HAS 2: Intereved ASW version with appared Grame

Sen Kine HAS 5: Intermed 45W contact with non-radar and

Sea King BAS 6: Interneed ASW version Sea King HARD: Search and resear version for BAL

Sex Kine HAILS: Board Many designation for its separate and

Sea King Mk 4X: UK Ministry of Defence trails version.

Sea Kine Mk 41: Expert version of Germany for worth and

Sea King Mk 42: Export sersion for India to HVS 1 standard.

Sex Kinn Mk 428: Famort version for looks with unspeed See Kirm Mk 42C: Empet version for India to BAR 3

Sea King Mk 43/A/R: Expert version to Nerway for yearth



and record. Sea King MA-45/A: Export version to Pakistan to HAS 12 standard. Sea King Mk-47: Export ASM version for Egypt to HAS 2 standard. Sea King MA-48: Export record version for Belgium to HAS 3.

Sea King Mk SQA: Expert vesion for Australia to HAS 2 standard.

Sea King AEW 2A: Airbane carly warning vesion with

Sea King AEW 7: Improved aldronne early scarning version with regressed Searchwater reales. Commando Mk. 1 (Sea King Mk. 20): Assault and trooptransport version for Egypt. Commando Mk. 2 (Sea King Mk. 22): Assault and troop

Communito NN, 24 (Sca King MR 92): Assault and toop transport version for Guta.

Community Mr. 20 (Sex King MR 92): MP version for Gutae.

Community NN, 26 (Sex King MR 92): UP version for Gutae.

Community NN, 26 (Sex King MR 92): Up of the version for Guyat.

Community NN, 25 (Sex King MR 92): Moved services for

Outar, fitted to fire Exocet missiles. Status

Operators

Sea King HC.Mk 4 'Junglis' over Bosnia

(LA (Photi Terry Morgan,



Espet, Sermany Issael, India

Manufacturer

Sikordo Aiscraft (USA), Assista OHI Mitschishi Heavy

service with the Roya Mary

(Media Production

Sikorsky S-61N-1 Silver (USA)

Type: Passenger transport helicopter

Accommodation: Two pilots, 30 passengers

Development/History

A development of the Sea King largely for the civil market, this version has been employed by a market of military uses for troop transport and resions wark. Only operators have also chartered them to military continuous in the Middle first and

Variants

S-GIL: Civil ve

S-61NR: Export search and rescue version for Argentina.

Status No longer in

Argentinalair force), Malaysia Iair force), UK (MoD), United Nations.

Manufacturer



Sikorsky S-61N-1 Silver
Specifications (for S-61N)

Powcrplant Inv General Bectric CTS8-0 Power: 3000 Mp (2236 KW)

Unmensions Length: 72 ft 10 in (22.2 m) Rotor diameter: 62 ft (18.2 m) Height: 17 ft (5.2 m) Weights Empty: 12 510 lb (5574 kg) Max 1/0: 22 000 lb (9900 kg) Payland: 7850 lb (1560 kg)

> Max speed: 146 mph (235 kmh) Bange: 430 nm (756 km)

Sikorsky S-61/HH-3 (USA)

Type: Medium-lift transport believater

Development/History being the first in-service believeter to employ in-flight relation. Ewetselly superseded by the bigger 5-65 series in

CNL-16-16-46 stillty and draw property version. HIII-36' July Green Glant: USAF combat search and resour MH-3F: USM secrid forces project with in-flight art at less HH-3F Prigary US Coast Guant, search and resour version WE-3E: USW VP transport version

Status

Operators

Manufacturer Silvenia Aircraft (USA), Aqueta Iltalyli. Accommodation: Two pilots, 30 troops, 15 stretchers



Specifications (CH-3E)

Length: 57 ft 2 in (17.4 ml)

Empty: 13 225 lb 80000 and

Performance Man speed: 162 mah (261 kmh)

Rayac: 404 nm (745 km) Armament

Sikorsky S-65A/CH-53 Sea Stallion (IISA)

Type: Hemaulift transport believeter Accommodation: Two nilots crow chief, 27 transp. 24 stretchers

Development/History Sitomics's big lifter first flew in 1964, and was quirily

special operations and comfort search and resour beforeter instigating several unoragies to maintain its deep severation

Variants

128

TH-53A: IPAF training version similar in rapphility to CH-HILL EXPAN DEAD complet season and record modern with in-

CB-53C-1ISM accordance with out in-Bight exhedited

CH-528: Improved USMC version with upcored No.-95-413 cenines, each rated at 2927 kW \$3925 shall RH-530: US Navy minespeeper, powered by two 164-0E-MH-STI Peer Low III: 11547 special operations service. Street

to 2935 kW (2936 shall S-65C-2M: Austrian export venices built to CH-S3C



Sikoraky/VFW-Fokker CH-53G See Stellion serving with the United Nations Special Commission in Iran after the Gulf Wer Specifications (for CH-53A)

Powernlant

Normal EXI: 15 000 It (15.825 bid.

(Tim Ripley

Performance

Armament

Sikorsky S-65A/CH-53 Sea Stallion (UBA)



Sikersky CH-53D Sea Stall

Sikorsky S-65A/CH-53 Sea Stallion (USA)

CH-53 2000: Israeli urmrade often known or Yorker 2000

Status Operators

Manufacturer Siturdor Airmatt (USA), VPM-Fokker (Germand).



Silversky MH-53.1 Pave Low

(USAF(DoO) 120

Sikorsky S-80/CH-53E Super Stallion (USA)

Type: Heggy-lift transport beliconter Aeronmodation: Two pilots, crew chief, 55 troops

Development/History The S-80 series Super Stalling utilizes there engines to make

in 1981, and some 127 were built until production occased in Mine clearing persions used by the US New and Incorpo-

Mantime Self-Defence Fasce are operated from amphibious CH-53E Sea Staffine: US Navy and Marine Corns describ soul

MH-53E Sea Doque: US Navy mine-incoming service 5-806: Proposed export version of D8-636. S-80M-1: Incorese micro-morphism acuring

No longer in production.

Operator

Specifications (for CH-53E) Powernlant

Three General Electric 164-GE-416 turbo/pufts Dimensions Levette 73 ft 4 in (22.3 m) Height: 29 ft 5 in (8.9 m)

Weights

Performance



Sikorsky S-80/CH-53E Super Stallion (USA)



Sikorsky S-80/CH-53E Super Stallion (USA)





(United Technologies/Sikorsky Aircraft)

Sikorsky S-70/UH-60 Blackhawk (USA)

Type: Medium-lift utility beliennter Accommodation: Two nilots crew chief, 14 troops

Development/History to the code 1600 the 100 Arms bears besting for a 180 1

the design, which first fless in 1974.

developed in the late 1990s constants being designated the IIII.4811 In total the IIS Jersy has brought some 1400 project

Variante

HILLER SHAS: Proposed among surgeithers rate version UH-664: US Army version with appared 1700-68-7800 emines.

UH-600 Distelf: Proposed Medical execution version, with

FIL-603 Oxick fire Electronic vertices version FH-62C Dair's Fig. bearanted electronic warfare version. MH-60A Velon Bank: US Anny special forces venion. MH-GOG: Pave Hawk USAF special forces version with in-Hight refueling

MILEOF 15 few servial force servine with in-flight 134

Silvandry UN-601 Blackband Specifications (for UH-60A) Powerplant

Dimensions Helpht: 16 ft 10 in 65 f rd

Weights



SIKOTSKY S-70 Armed Blackhatu

Sikorsky S-70/UH-60 Blackhawk (USA)



Sikorsky S-70/UH-60 Blackhawk #1569

S-70A-11: Saudi VP transport/medicuse version

VH-CON: IS Presidential transport service. S-70A-1: Souri hard forces senting

5-70A-5: Philippines export persing.

Sc200s 14: Round report version

5-206-27: Hoss Kors export version

5-704-17: Increase county and emore coming designated

S-70A-16: Test hed for Enlis-Bosco/katsom/co EIM 132. S-70A-17: Turkish capact venions.

5-70A-19: Nordand-produced venior, designated WS-70.

5-205-24: Mexican expect version Suitabute: Monoron cunort version

S-MC: Chinese export venion. S-MC-2: Rescue venion with hold used by fallerin and

Status

Operators

Australia Jannel, Balvain, Brazil Gernd, Brasci, Chisa,

Sikarsky UH-801 Blackhaud



Sikorsky S-70/UH-60 Blackhawk (USA)

Moneco, Philippins (air force), Saudi Arabia (army), South Korca (anny), Taiwan (air force), Jurkey (anny), Thailand (army),

Manufacturer Shooky Aircraft IUSAL Mitschishi Heavy Industries (Japan), Westland Helicopte



Sikersky S-70A Blackbawk of Royal Brunei Armed Forces

Sikorsky A

Sikorsky S-70B/SH-60 Seahawk (USA)

Type: Maritime beliconter Accommodation: Two pilots, mission specialist

Development/History

Navidad version of the S70 peries wan the US Naviy.

LMMS competition with adverlapment contract being used in 1977, the SH-608 has \$1 per cent commonlier with the UH46, bits which sown features receiving for operation at 10x1, including anti-corroles twortener for the aristmen, improved engines and 18VSI receiver, which the Incered to a reling while deck in heavy seas. The US Navy has command to develop the basic view, including a anti-submanife version with darking senter and a specially considered and the sentence about Most common the common and the contract of the contract of the common and the contract men in the contract work and receive sentence about Most common and contract men in the contract contract men and and the contract men in the contract contract men and and the contract men in the contract contract men and and the contract men in the contract contract men and and contract men and and contract contract men and and contract men and and



SH-608 Seabswic: Original US Navy light multi-purpose system (UAMPS) NA III frigate and destroyer-borne hidiosptes, with APS-124 radar, MAD and sonoboxy banching systems.

SH-60F Ocean Bank: Carrier-horne (IX) inner sea zone anti-submarine belicopter, with Bendix dipping soner and provision for three NK 50 torpedoes. 57-200-USH-60E. Lucomer-built version of 5H-60E.

SH-00R: US Navy programme to standardise B, F and H versions.

S-70B-2 BAWS: Australian version with derecitically-produced radia, somoleculy and other systems. Non-provision for Sea Stan and Premain nature mailed and with the minutes.



Sikorsky S-708-6 Seshawk of Greek Havy

Specifications (for SH-60B)

Paner: 3800 shp (2834 kW)

Dimensions
Length: 50 ft 0.75 in (15.26 m)

Height: 17 ft (5.18 m) Weights Max 170: 21 004 to (9926 kg) its Payload: n/a

> Performance Max speed: 146 mph (234 kmh) Range: 50 mm (92.5 km) for 3-hour loiter

Armament

Penguin anti-skip missiles: Mk 46 or Mi torpedoes; free-flight sockets.

Sikorsky S-70B/SH-60 Seahawk (IRA)



S-YOCIMI-1 Thanderhank! Tuinances version of SH-GGE tocal conversion to Signals intelligence rate has taken place. HH-GORI Rescue Hawki: US Navy specialised combat search and rescue version, with extra armament and regulation systems.

S-708-6: Greek export version. S-708-7: That moved version with PFGE-368.

engines. CH-60: Proposed US Navy utility version for support and vertical explorishment.

Operators Australia Inavyl, Beccer Jessyl, Japan (ravyl,

poin (novy), Toimon (novy), USA (novylount pant),

Manufacturers Stansky Aecualt (USA), Mitashishi Heavy Industries (Usage), ASIA (Australia)

Sikorsky SH-608 Seahawk



Sikorsky S-76 (USA)

Accommodation: Two pilots 14 passengers Type: Medium-lift utility beliconter

Development / History This private writter product has sold well to a number of

Mariante

Sa 76 Mile III Interpreted services

S-76 Utility: Basic version ADM 76: Armed utility derivative, with removing for actiarmost nackets and gues S. 76AC: Version with 52900 (961 shed between the Amid

5-768: Production sensine with PSGS-765 researchest H-768- Military version of S-768, with personn persisten-

Status

Operators Chile Lannel, Geaternals, Handurys, Horse Kores, Iran, Jana, Jordan, Philippines Join forcel, Spanish (air force), South

Manufacturer

Sitonlay Aircraft BISAL and Danson Moreal



Specifications (for H-76) Powerplant Two Posts D. Whitney Carpula PT68-36A

Power: 1962 shp (1464 kW)

Dimensions Length: 44 ft (13.6 m) Height: 14 ft 5 in (4.4 m)

May 170- 11 200 % (\$307 8x)

Max speed: 178 mph (287 kmh)

Armament

asided missies: fOW wire-suided anti-turic missiles; free-flight nockets

Glossarv

#PW Sichosop work province

ASM Anti-submarine warfare

CES Codes the minformed electric

SID-15538 or ARNC 419 forc ward

OF Direction finder or direction finding. RLIR Forward-looking infra-red.

electrical signature lie without

nepols for of a basis in fee falls or

SMB liderat mounted display honor

IRST lefts, and search and truck.

rediscible distance on six of the fle AW Elements, the metric and for

lear observables Materials and

MMS Med-mounted solut

port Left side booking forward

IPV femotrie-minted which

all electromagnetic radiation fradar, IR single-shaft firs turbine in which all

2240 lb; US ishortl ton - 0.9072 t or turbothaft for turbine in which as UW Unwarrent air vehicle.

Acknowledgements

I restablish to a thrack the dollewing for their bels and added white for preparation of 90% book. Inch. Lake, I restablish 2 lakes; Exteny, Exter Donathon and lan Pules. Believe intelligent Magazier; belse festivad, Lave's kindigence Booker, Commander Restablish, Lave's kindigence Booker, Commander Restablish, Lave's festivation of their contract of t

Design: Rod Fessdale Cover photographs: Peter Foster Colour reproduction by Colourscan, Singapore

First published in Great Britain by MarperCollinsPublishers in 1998

PharperCollinsTv466/bers 1998
ISBN 00 47233-9
UK information selectes: Uniformation address: HasperCollinsTv46/bers In 179-85 Februar Place 10 Let Sand Silvert Boat Rememorable 17 10002

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